Cisco Prime Infrastructure to Cisco Catalyst Center Prime Data Migration Guide

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Americas Headquarters
Cisco Systems, Inc.
170 West Tasman Drive
San Jose, CA 95134-1706
USA
http://www.cisco.com
Tel: 408 526-4000
800 553-NETS (6387)
Fax: 408 527-0883

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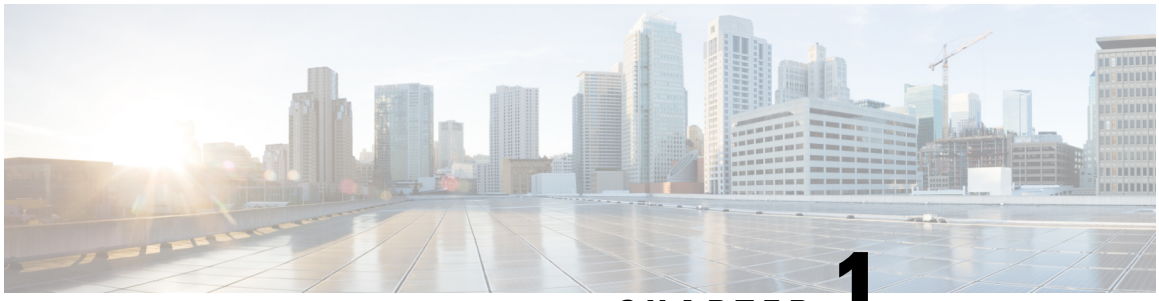


CHAPTER 1

Cisco Prime Infrastructure and Cisco Catalyst Center Compatibility Matrix

- Introduction, on page 1
- Cisco Prime Infrastructure and Cisco Catalyst Center Compatibility Matrix, on page 1

Introduction

You can now integrate Cisco Prime Infrastructure with Cisco Catalyst Center and utilize the intent-based networking solution for managing application user experience in the enterprise.

Catalyst Center supports the expression of intent for multiple use cases, including base automation capabilities, fabric provisioning, and policy-based segmentation in the enterprise network. Catalyst Center adds context to this journey through the introduction of Analytics and Assurance. To know more about Cisco Catalyst Center, visit http://cisco.com/go/dna.

You can migrate devices, location groups, associated site maps, user defined CLI templates and CMX data from Cisco Prime Infrastructure to Cisco Catalyst Center and manage your enterprise network over a centralized dashboard.

Cisco Prime Infrastructure and Cisco Catalyst Center Compatibility Matrix

The following table lists the Cisco Catalyst Center releases that are compatible with Cisco Prime Infrastructure.

Table 1: Cisco Prime Infrastructure and Cisco Catalyst Center Compatibility Matrix

Cisco Prime Infrastructure	Cisco Catalyst Center
PI 3.10.6 Prime Data Migration Tool Update 08.01	CatC 3.1.6, CatC 3.1.6-GSMU100

Cisco Prime Infrastructure	Cisco Catalyst Center
PI 3.10.6 Prime Data Migration Tool Update 08 PI 3.9.x Prime Data Migration Tool Update 08 PI 3.8.x Prime Data Migration Tool Update 08 PI 3.7.x Prime Data Migration Tool Update 08	On-premises appliance: 2.3.5.6, 2.3.7.10 Virtual appliance: 2.3.7.10 - ESXi VA, 3.1.5 - ESXi VA
PI 3.10.6 Prime Data Migration Tool Update 07 PI 3.9.x Prime Data Migration Tool Update 07 PI 3.8.x Prime Data Migration Tool Update 07 PI 3.7.x Prime Data Migration Tool Update 07	On-premises appliance: 2.3.3.7, 2.3.5.6, 2.3.7.9 Virtual appliance: 2.3.7.9 - ESXi VA
PI 3.10.6 (Prime Data Migration Tool Update 06)	On-premises appliance: 2.3.3.7, 2.3.5.6, 2.3.7.6,2.3.7.7 Virtual appliance: 2.3.7.6 - ESXi VA, 2.3.7.7 - ESXi VA
PI 3.10.5 Prime Data Migration Tool Update 06 PI 3.9.x Prime Data Migration Tool Update 06 PI 3.8.x Prime Data Migration Tool Update 06 PI 3.7.x Prime Data Migration Tool Update 06	On-premises appliance: 2.3.3.7, 2.3.5.6, 2.3.7.6,2.3.7.7 Virtual appliance: 2.3.7.6 - ESXi VA, 2.3.7.7 - ESXi VA
PI 3.10.5 (Prime Data Migration Tool Update 05.02)	On-premises appliance: 2.3.3.7, 2.3.5.5, 2.3.5.6 Virtual appliance: 2.3.7.5 - ESXi VA
PI 3.10.4 Prime Data Migration Tool Update 05.02 PI 3.9.x Prime Data Migration Tool Update 05.02 PI 3.8.x Prime Data Migration Tool Update 05.02 PI 3.7.x Prime Data Migration Tool Update 05.02	On-premises appliance: 2.3.3.7, 2.3.5.5, 2.3.5.6 Virtual appliance: 2.3.7.5 - ESXi VA
PI 3.10.4 Update 03 and Prime Data Migration Tool Update 05.01	On-premises Appliance: 2.3.3.7, 2.3.5.4, 2.3.5.5, 2.3.7.0 Virtual appliance: 2.3.7.4 - ESXi VA
PI 3.10.4 Update 02 and Prime Data Migration Tool Update 05.01	On-premises appliance: 2.3.3.7, 2.3.5.4, 2.3.5.5, 2.3.7.0 Virtual appliance: 2.3.7.4 - ESXi VA
PI 3.10.4 Prime Data Migration Tool Update 05.01 PI 3.9.x Prime Data Migration Tool Update 05.01 PI 3.8.x Prime Data Migration Tool Update 05.01 PI 3.7.x Prime Data Migration Tool Update 05.01	On-premises appliance: 2.3.3.7, 2.3.5.4, 2.3.5.5, 2.3.7.0 Virtual appliance: 2.3.7.4 - ESXi VA

Cisco Prime Infrastructure	Cisco Catalyst Center
PI 3.10.4 Prime Data Migration Tool Update 05 PI 3.9.x Prime Data Migration Tool Update 05 PI 3.8.x Prime Data Migration Tool Update 05 PI 3.7.x Prime Data Migration Tool Update 05	2.3.3.7, 2.3.5.3
PI 3.10.4 (Prime Data Migration Tool Update 04)	2.2.3.6 , 2.3.3.5, 2.3.3.6, 2.3.3.7
PI 3.10.3 (Prime Data Migration Tool Update 04)	2.2.3.6, 2.3.3.5, 2.3.3.6, 2.3.3.7
PI 3.10.2 Prime Data Migration Tool Update 04 PI 3.10.1 Prime Data Migration Tool Update 04 PI 3.9.x Prime Data Migration Tool Update 04 PI 3.8.x Prime Data Migration Tool Update 04 PI 3.7.x Prime Data Migration Tool Update 04	2.2.3.6 , 2.3.3.5, 2.3.3.6, 2.3.3.7
PI 3.10.1 Prime Data Migration Tool Update 03.01 PI 3.9.x Prime Data Migration Tool Update 03.01 PI 3.8.x Prime Data Migration Tool Update 03.01 PI 3.7.x Prime Data Migration Tool Update 03.01	2.2.3.6, 2.3.3.4
PI 3.10.2	1.2.1, 1.2.2, 1.2.3, 1.2.4, 1.2.5, 1.2.6, 1.2.8, 1.2.10, 1.2.12, 1.2.12.21.3.0, 1.3.0.1, 1.3.0.2, 1.3.0.3, 1.3.0.4, 1.3.0.5, 1.3.0.6 1.3.1, 1.3.1.3, 1.3.1.4, 1.3.3.0, 1.3.3.1, 1.3.3.3, 1.3.3.4,1.3.3.5, 1.3.3.7, 1.3.3.8, 1.3.3.9, 2.1.1.0, 2.1.1.3, 2.1.2.0, 2.1.2.3, 2.1.2.4, 2.1.2.5, 2.1.2.6, 2.1.2.7, 2.2.1.0, 2.2.1.3, 2.2.2.0, 2.2.2.3, 2.2.2.4, 2.2.2.8, 2.2.2.9, 2.2.3.0, 2.2.3.3, 2.2.3.4, 2.2.3.5, 2.2.3.6, 2.3.2.0, 2.3.2.3, 2.3.3.0, 2.3.3.4, and 2.3.4.0
PI 3.9.x Prime Data Migration Tool Update 03 PI 3.8.x Prime Data Migration Tool Update 03 PI 3.7.x Prime Data Migration Tool Update 03	1.2.1, 1.2.2, 1.2.3, 1.2.4, 1.2.5, 1.2.6, 1.2.8, 1.2.10, 1.2.12, 1.2.12.2 1.3.0, 1.3.0.1, 1.3.0.2, 1.3.0.3, 1.3.0.4, 1.3.0.5, 1.3.0.6 1.3.1, 1.3.1.3, 1.3.1.4, 1.3.3.0, 1.3.3.1, 1.3.3.3, 1.3.3.4,1.3.3.5, 1.3.3.7, 1.3.3.8, 1.3.3.9, 2.1.1.0, 2.1.1.3, 2.1.2.0, 2.1.2.3, 2.1.2.4, 2.1.2.5, 2.1.2.6, 2.1.2.7, 2.2.1.0, 2.2.1.3, 2.2.2.0, 2.2.2.3, 2.2.2.4, 2.2.2.8, 2.2.2.9, 2.2.3.0, 2.2.3.3, 2.2.3.4, 2.2.3.5, 2.2.3.6, 2.3.2.0, 2.3.2.3, 2.3.3.0, 2.3.3.4, and 2.3.4.0

Cisco Prime Infrastructure	Cisco Catalyst Center
PI 3.10.1	1.2.1, 1.2.2, 1.2.3, 1.2.4, 1.2.5, 1.2.6, 1.2.8, 1.2.10, 1.2.12, 1.2.12.21.3.0, 1.3.0.1, 1.3.0.2, 1.3.0.3, 1.3.0.4, 1.3.0.5, 1.3.0.6 1.3.1, 1.3.1.3, 1.3.1.4, 1.3.3.0, 1.3.3.1, 1.3.3.3, 1.3.3.4,1.3.3.5, 1.3.3.7, 1.3.3.8, 1.3.3.9, 2.1.1.0, 2.1.1.3, 2.1.2.0, 2.1.2.3, 2.1.2.4, 2.1.2.5, 2.1.2.6, 2.1.2.7, 2.2.1.0, 2.2.1.3, 2.2.2.0, 2.2.2.3, 2.2.2.4, 2.2.2.8, 2.2.2.9, 2.2.3.0, 2.2.3.3, 2.2.3.4, 2.2.3.5, 2.2.3.6, 2.3.2.0, 2.3.2.3, 2.3.3.0, 2.3.3.4, and 2.3.4.0
PI 3.10 Update 01	1.2.1, 1.2.2, 1.2.3, 1.2.4, 1.2.5, 1.2.6, 1.2.8, 1.2.10, 1.2.12, 1.2.12.2 1.3.0, 1.3.0.1, 1.3.0.2, 1.3.0.3, 1.3.0.4, 1.3.0.5, 1.3.0.6 1.3.1, 1.3.1.3, 1.3.1.4, 1.3.3.0, 1.3.3.1, 1.3.3.3, 1.3.3.4,1.3.3.5, 1.3.3.7, 1.3.3.8, 1.3.3.9, 2.1.1.0, 2.1.1.3, 2.1.2.0, 2.1.2.3, 2.1.2.4, 2.1.2.5, 2.1.2.6, 2.1.2.7, 2.2.1.0, 2.2.1.3, 2.2.2.0, 2.2.2.3, 2.2.2.4, 2.2.2.8, 2.2.3.0 and 2.2.3.4
PI 3.9.x Prime Data Migration Tool Update 02.01 PI 3.8.x Prime Data Migration Tool Update 02.01 PI 3.7.x Prime Data Migration Tool Update 02.01	1.2.1, 1.2.2, 1.2.3, 1.2.4, 1.2.5, 1.2.6, 1.2.8, 1.2.10, 1.2.12, 1.2.12.2 1.3.0, 1.3.0.1, 1.3.0.2, 1.3.0.3, 1.3.0.4, 1.3.0.5, 1.3.0.6 1.3.1, 1.3.1.3, 1.3.1.4, 1.3.3.0, 1.3.3.1, 1.3.3.3, 1.3.3.4,1.3.3.5, 1.3.3.7, 1.3.3.8, 1.3.3.9, 2.1.1.0, 2.1.1.3, 2.1.2.0, 2.1.2.3, 2.1.2.4, 2.1.2.5, 2.1.2.6, 2.1.2.7, 2.2.1.0, 2.2.1.3, 2.2.2.0, 2.2.2.3, 2.2.2.4, 2.2.2.8, 2.2.3.0, 2.2.3.3, 2.2.3.4 and 2.3.2.0
PI 3.10	1.2.1, 1.2.2, 1.2.3, 1.2.4, 1.2.5, 1.2.6, 1.2.8, 1.2.10, 1.2.12, 1.2.12.2 1.3.0, 1.3.0.1, 1.3.0.2, 1.3.0.3, 1.3.0.4, 1.3.0.5, 1.3.0.6 1.3.1, 1.3.1.3, 1.3.1.4, 1.3.3.0, 1.3.3.1, 1.3.3.3, 1.3.3.4,1.3.3.5, 1.3.3.7, 1.3.3.8, 1.3.3.9, 2.1.1.0, 2.1.1.3, 2.1.2.0, 2.1.2.3, 2.1.2.4, 2.1.2.5, 2.1.2.6, 2.1.2.7, 2.2.1.0, 2.2.1.3, 2.2.2.0, 2.2.2.3, 2.2.2.4, and 2.2.3.0.
PI 3.9.x Prime Data Migration Tool Update 02 PI 3.8.x Prime Data Migration Tool Update 02 PI 3.7.x Prime Data Migration Tool Update 02	1.2.1, 1.2.2, 1.2.3, 1.2.4, 1.2.5, 1.2.6, 1.2.8, 1.2.10, 1.2.12, 1.2.12.2 1.3.0, 1.3.0.1, 1.3.0.2, 1.3.0.3, 1.3.0.4, 1.3.0.5, 1.3.0.6 1.3.1, 1.3.1.3, 1.3.1.4, 1.3.3.0, 1.3.3.1, 1.3.3.3, 1.3.3.4,1.3.3.5, 1.3.3.7, 1.3.3.8, 1.3.3.9, 2.1.1.0, 2.1.1.3, 2.1.2.0, 2.1.2.3, 2.1.2.4, 2.1.2.5, 2.1.2.6, 2.1.2.7, 2.2.1.0, 2.2.1.3, 2.2.2.0, 2.2.2.3, and 2.2.2.4.

Cisco Prime Infrastructure and Cisco Catalyst Center Compatibility Matrix

Cisco Prime Infrastructure	Cisco Catalyst Center
PI 3.9.1	1.2.1, 1.2.2, 1.2.3, 1.2.4, 1.2.5, 1.2.6, 1.2.8, 1.2.10, 1.2.12, 1.2.12.2 1.3.0, 1.3.0.1, 1.3.0.2, 1.3.0.3, 1.3.0.4, 1.3.0.5, 1.3.0.6 1.3.1, 1.3.1.3, 1.3.1.4, 1.3.3.0, 1.3.3.1, 1.3.3.3, 1.3.3.4,1.3.3.5, 1.3.3.7, 1.3.3.8, 1.3.3.9, 2.1.1.0, 2.1.1.3, 2.1.2.0, 2.1.2.3, 2.1.2.4, 2.1.2.5, 2.1.2.6, 2.2.1.0, 2.2.1.3, and 2.2.2.0.
PI 3.5.x Prime Data Migration Tool Update 01	1.2.1, 1.2.2, 1.2.3, 1.2.4, 1.2.5, 1.2.6, 1.2.8, 1.2.10, 1.2.12, 1.2.12.2 1.3.0, 1.3.0.1, 1.3.0.2, 1.3.0.3, 1.3.0.4, 1.3.0.5, 1.3.0.6 1.3.1, 1.3.1.3, 1.3.1.4, 1.3.3.0, 1.3.3.1, 1.3.3.3, 1.3.3.4,1.3.3.5, 1.3.3.7, 1.3.3.8, 1.3.3.9, 2.1.1.0, 2.1.1.3, 2.1.2.0, 2.1.2.3, 2.1.2.4, 2.1.2.5 and 2.2.1.0
PI 3.6.x Prime Data Migration Tool Update 01	1.2.1, 1.2.2, 1.2.3, 1.2.4, 1.2.5, 1.2.6, 1.2.8, 1.2.10, 1.2.12, 1.2.12.2 1.3.0, 1.3.0.1, 1.3.0.2, 1.3.0.3, 1.3.0.4, 1.3.0.5, 1.3.0.6 1.3.1, 1.3.1.3, 1.3.1.4, 1.3.3.0, 1.3.3.1, 1.3.3.3, 1.3.3.4,1.3.3.5, 1.3.3.7, 1.3.3.8, 1.3.3.9, 2.1.1.0, 2.1.1.3, 2.1.2.0, 2.1.2.3, 2.1.2.4, 2.1.2.5 and 2.2.1.0
PI 3.7.x Prime Data Migration Tool Update 01	1.2.1, 1.2.2, 1.2.3, 1.2.4, 1.2.5, 1.2.6, 1.2.8, 1.2.10, 1.2.12, 1.2.12.2 1.3.0, 1.3.0.1, 1.3.0.2, 1.3.0.3, 1.3.0.4, 1.3.0.5, 1.3.0.6 1.3.1, 1.3.1.3, 1.3.1.4, 1.3.3.0, 1.3.3.1, 1.3.3.3, 1.3.3.4,1.3.3.5, 1.3.3.7, 1.3.3.8, 1.3.3.9, 2.1.1.0, 2.1.1.3, 2.1.2.0, 2.1.2.3, 2.1.2.4, 2.1.2.5 and 2.2.1.0
PI 3.8.x Prime Data Migration Tool Update 01 Hotfix	1.2.1, 1.2.2, 1.2.3, 1.2.4, 1.2.5, 1.2.6, 1.2.8, 1.2.10, 1.2.12, 1.2.12.2 1.3.0, 1.3.0.1, 1.3.0.2, 1.3.0.3, 1.3.0.4, 1.3.0.5, 1.3.0.6 1.3.1, 1.3.1.3, 1.3.1.4, 1.3.3.0, 1.3.3.1, 1.3.3.3, 1.3.3.4,1.3.3.5, 1.3.3.7, 1.3.3.8, 1.3.3.9, 2.1.1.0, 2.1.1.3, 2.1.2.0, 2.1.2.3, 2.1.2.4, 2.1.2.5 and 2.2.1.0
3.9	1.2.1, 1.2.2, 1.2.3, 1.2.4, 1.2.5, 1.2.6, 1.2.8, 1.2.10, 1.2.12, 1.2.12.2 1.3.0, 1.3.0.1, 1.3.0.2, 1.3.0.3, 1.3.0.4, 1.3.0.5, 1.3.0.6 1.3.1, 1.3.1.3, 1.3.1.4, 1.3.3.0, 1.3.3.1, 1.3.3.3, 1.3.3.4,1.3.3.5, 1.3.3.7, 1.3.3.8, 1.3.3.9, 2.1.1.0, 2.1.1.3, 2.1.2.0, 2.1.2.3, 2.1.2.4, 2.1.2.5 and 2.2.1.0

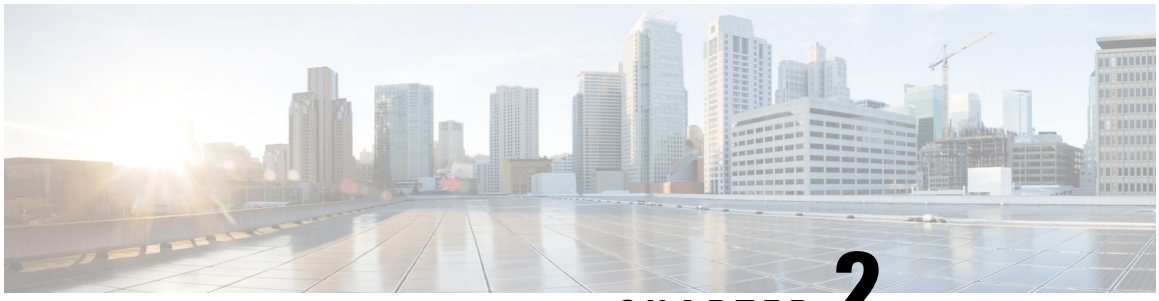
Cisco Prime Infrastructure and Cisco Catalyst Center Compatibility Matrix

Cisco Prime Infrastructure	Cisco Catalyst Center
3.8.1	1.2.1, 1.2.2, 1.2.3, 1.2.4, 1.2.5, 1.2.6, 1.2.8, 1.2.10, 1.2.12, 1.2.12.2 1.3.0, 1.3.0.1, 1.3.0.2, 1.3.0.3, 1.3.0.4, 1.3.0.5, 1.3.0.6 1.3.1, 1.3.1.3, 1.3.1.4, 1.3.3.0, 1.3.3.1, 1.3.3.3, 1.3.3.4,1.3.3.5, 1.3.3.7, 2.1.1.0, 2.1.1.3, 2.1.2.0, and 2.1.2.4.
3.8 Update 02	1.2.1, 1.2.2, 1.2.3, 1.2.4, 1.2.5, 1.2.6, 1.2.8, 1.2.10, 1.2.12, 1.2.12.2 1.3.0, 1.3.0.1, 1.3.0.2, 1.3.0.3, 1.3.0.4, 1.3.0.5, 1.3.0.6 1.3.1, 1.3.1.3, 1.3.1.4, 1.3.3.0, 1.3.3.1, 1.3.3.3, 1.3.3.4,1.3.3.5, 2.1.1.0 and 2.1.2.4.
3.8 Update 01	1.2.1, 1.2.2, 1.2.3, 1.2.4, 1.2.5, 1.2.6, 1.2.8, 1.2.10, 1.2.12, 1.2.12.2 1.3.0, 1.3.0.1, 1.3.0.2, 1.3.0.3, 1.3.0.4, 1.3.0.5, 1.3.0.6 1.3.1, 1.3.1.3, 1.3.1.4, 1.3.3.0, 1.3.3.1, 1.3.3.3, and 1.3.3.4
3.8	1.2.1, 1.2.2, 1.2.3, 1.2.4, 1.2.5, 1.2.6, 1.2.8, 1.2.10, 1.2.10.4, 1.2.11, 1.2.12 1.3.0, 1.3.0.1, 1.3.0.2, 1.3.0.3, 1.3.0.4, 1.3.0.5, 1.3.0.6 1.3.1, 1.3.1.3, 1.3.1.4, 1.3.1.5, 1.3.2.1, 1.3.3.0, and 1.3.3.1
3.7.1 Update 05	1.2.1, 1.2.2, 1.2.3, 1.2.4, 1.2.5, 1.2.6, 1.2.8, 1.2.10, 1.2.12, 1.2.12.2 1.3.0, 1.3.0.1, 1.3.0.2, 1.3.0.3, 1.3.0.4, 1.3.0.5, 1.3.0.6 1.3.1, 1.3.1.3, 1.3.1.4, 1.3.3.0, 1.3.3.1, 1.3.3.3, 1.3.3.4 1.3.3.5, 1.3.3.8, 1.3.3.9, 2.1.1.0, 2.1.2.3, and 2.1.2.5
3.7.1 Update 04	1.2.1, 1.2.2, 1.2.3, 1.2.4, 1.2.5, 1.2.6, 1.2.8, 1.2.10, 1.2.12, 1.2.12.2 1.3.0, 1.3.0.1, 1.3.0.2, 1.3.0.3, 1.3.0.4, 1.3.0.5, 1.3.0.6 1.3.1, 1.3.1.3, 1.3.1.4, 1.3.3.0, 1.3.3.1, 1.3.3.3, 1.3.3.4 1.3.3.5, 1.3.3.8, 1.3.3.9, 2.1.1.0, 2.1.2.3, and 2.1.2.5
3.7.1 Update 03	1.2.1, 1.2.2, 1.2.3, 1.2.4, 1.2.5, 1.2.6, 1.2.8, 1.2.10, 1.2.12, 1.2.12.2 1.3.0, 1.3.0.1, 1.3.0.2, 1.3.0.3, 1.3.0.4, 1.3.0.5, 1.3.0.6 1.3.1, 1.3.1.3, 1.3.1.4, 1.3.3.0, 1.3.3.1, 1.3.3.3, 1.3.3.4 1.3.3.5, 1.3.3.8, 2.1.1.0 and 2.1.2.3

Cisco Prime Infrastructure and Cisco Catalyst Center Compatibility Matrix

Cisco Prime Infrastructure	Cisco Catalyst Center
3.7.1 Update 02	1.2.1, 1.2.2, 1.2.3, 1.2.4, 1.2.5, 1.2.6, 1.2.8, 1.2.10, 1.2.12, 1.2.12.2 1.3.0, 1.3.0.1, 1.3.0.2, 1.3.0.3, 1.3.0.4, 1.3.0.5, 1.3.0.6 1.3.1, 1.3.1.3, 1.3.1.4, 1.3.3.0, 1.3.3.1, 1.3.3.3, 1.3.3.4 1.3.3.5 and 2.1.1.0
3.7.1 Update 01	1.2.1, 1.2.2, 1.2.3, 1.2.4, 1.2.5, 1.2.6, 1.2.8, 1.2.10, 1.2.12, 1.2.12.2 1.3.0, 1.3.0.1, 1.3.0.2, 1.3.0.3, 1.3.0.4, 1.3.0.5, 1.3.0.6 1.3.1, 1.3.1.3, 1.3.1.4, 1.3.3.0, 1.3.3.1, 1.3.3.3, and 1.3.3.4
3.7.1	1.2.1, 1.2.2, 1.2.3, 1.2.4, 1.2.5, 1.2.6, 1.2.8, 1.2.10, 1.2.12, 1.2.12.2 1.3.0, 1.3.0.1, 1.3.0.2, 1.3.0.3, 1.3.0.4, 1.3.0.5, 1.3.0.6 1.3.1, 1.3.1.3, 1.3.1.4, 1.3.3.0, and 1.3.3.1
3.7	1.2.1, 1.2.2, 1.2.3, 1.2.4, 1.2.5, 1.2.6, 1.2.8, 1.2.10, 1.2.10.4, 1.2.11, 1.2.12 1.3, 1.3.0.1, 1.3.0.2, 1.3.0.3, and 1.3.1
3.6	1.2.1, 1.2.2, 1.2.3, 1.2.4, 1.2.5, 1.2.6, 1.2.8, and 1.2.10
3.5	1.2.1, 1.2.2, 1.2.3, 1.2.4, 1.2.5, and 1.2.6

Cisco Prime Infrastructure and Cisco Catalyst Center Compatibility Matrix



CHAPTER 2

Migrate Cisco Prime Infrastructure Data to Cisco Catalyst Center Using Prime Data Migration Tool Update 08.01

This chapter provides information on migrating data and important points related to migrating Cisco Prime Infrastructure to Cisco Catalyst Center using the Prime Data Migration Tool Update 08.01.

- Prerequisites for Using Prime Data Migration Tool Update 08.01, on page 9
- Migrate Data from Cisco Prime Infrastructure to Cisco Catalyst Center using Prime Data Migration Tool Update 08.01, on page 10
- Important Notes, on page 16

Prerequisites for Using Prime Data Migration Tool Update 08.01

This section lists the prerequisites before using the Prime Data Migration Tool Update 08.01

Prerequisites for Using PI 3.10.6 Prime Data Migration Tool Update 08.01

Ensure that:

- You install Cisco Prime Infrastructure 3.10.6 Security Update 03 + 3.10.6 Security Update 03 System Patch.
- You migrate from Cisco Prime Infrastructure 3.10.6 Security Update 03 + 3.10.6 Security Update 03 System Patch to Cisco Catalyst Center using Cisco Prime Infrastructure 3.10.6 Prime Data Migration Tool Update 08.01.
- You have Root or Super Users access privileges of Cisco Prime Infrastructure.
- You have access credentials of Cisco Catalyst Center.
- Refer the Cisco Prime Infrastructure and Cisco Catalyst Center Compatibility Matrix, on page 1.

Migrate Data from Cisco Prime Infrastructure to Cisco Catalyst Center using Prime Data Migration Tool Update 08.01

This section helps you to migrate your Cisco Prime Infrastructure data from:

- PI 3.10.6 Security Update 03 + 3.10.6 Security Update 03 System Patch to Cisco Catalyst Center using PI 3.10.6 Prime Data Migration Tool Update 08.01.

Use this procedure to access the Cisco Prime Infrastructure to Cisco Catalyst Center migration by logging in to Cisco Prime Infrastructure:

Procedure

Step 1 Choose **Administration** > **Settings** > **System Settings** > **General** > **Prime Data Migration Tool**, and then click **Launch Prime Data Migration Tool** to open **Prime Infrastructure - Prime Data Migration Tool** page.

For 3.10.6 you can either:

Click **Prime Data Migration Tool** in the **Mega Menu** page.

Or

Launch Prime Data Migration Tool in the Getting Started page. Choose **Settings** > **Getting Started** > **Prime Data Migration Tool**, and then click **Launch Prime Data Migration Tool** to open the **Prime Infrastructure - Prime Data Migration Tool** page.

Step 2 From the top-right corer, click **Job history**.

The **Prime Data Migration Job History** window appears.

Step 3 In the **Prime Data Migration Job History window**, do the following:

a) Click **Force Sync** to view the list of jobs that are force synced and the job details such as Cisco Catalyst Center IP, Start Time, End Time, Status and Info. You can click on the ***i*** icon next to the status column of the corresponding jobs to view the detailed information. You can also click on the completed or failed status to view the respective job summary in the **Job Summary** window.

b) Click **Dynamic Sync** to view the list of dynamically synced job details such as Cisco Catalyst Center IP, Start Time, End Time, Status, and Info. You can click on the i icon next to the status column of the corresponding jobs to view the detailed information.

c) You can search for the job history by choosing a category from the drop-down list such as Groups/Maps, Devices, ISE, CMX and Templates or by using the search box.

If you choose Devices or ISE or CMX categories, enter the IP address in the search box and click Search to retrieve the job details.

Step 4 From the top-right corner, click **Download Logs** to download the prime migration logs in the .ZIP format.

Step 5 Click **Add Cisco Catalyst Center** Server.

Step 6 Enter the following Cisco Catalyst Center server details:

a) Server IP Address or Hostname.

b) Username.

c) Password.
d) Confirm Password.

You can integrate only one Cisco Catalyst Center server at a time.

When an invalid IP (invalid TOFU certificate) is added in the 'IP Address' field , a pop up will be displayed with the error message 'Invalid Certificate' and "To delete the existing certificate click here". You can remove the invalid certificate directly from the TOFU certification user interface by clicking the click here hyperlink in the error message.

Step 7 Click the **Enable Auto-Backup** radio button to backup the migrated data automatically when you remove or update the Catalyst Center server.

Step 8 Click **Save**, to check server reachability.

Step 9 (Optional) Click **Multi Server Settings**, to archive, and restore the data that is migrated from Prime Infrastructure to Catalyst Center. It is recommended to use this option after Force Sync.

You can use the following options to archive the migrated data:

- **List of Cisco Catalyst Center Archive Available** - Displays the list of available archives.
- **Back-up Current Cisco Catalyst Center Pairing** - Backup the currently paired Cisco Catalyst Center server and Sync Settings selection details in the migration tool.
- **Back-up Current & Load Cisco Catalyst Center Archive** - Current Cisco Catalyst Center server and its details are backed up and you are prompted to load any other available archive by entering the IP address.
- **Load Catalyst Center Archive Only**- Load the Cisco Catalyst Center backed up server and its details.
- **Delete Cisco Catalyst Center Archive** - Deletes the selected Catalyst Center archives.

Step 10 Configure the necessary settings in the **Sync Settings** window:

Supported or Available Limits of the Cisco Catalyst Center server for the **Site Groups/Site Maps** , **Devices**, and **Templates** is shown. Supported or Available Limits of Cisco Catalyst Center varies based on the Cisco Catalyst Center server model.

The Supported/Available limits are specified in the following table:

Table 2: Supported/ Available limits for Catalyst Center

Catalyst Center Model	Site Groups/ Site Maps	Devices	Templates
DN2-HW-APL DN3-HW-APL	2500	2000	1000
DN2-HW-APL-L DN3-HW-APL-L	2500	4000	1000
DN2-HW-APL-XL DN3-HW-APL-XL	2500	8000	1000

Table 3: Supported/Available Limits for Catalyst Center on ESXi

Catalyst Center on Esxi	Site Groups/Site Maps	Devices	Templates
32vCPU/256G	2500	2000	1000

a) Check the **Enables automatic synchronization of data integrated with Cisco Catalyst Center** check box to automatically synchronize any updates to the set of migrated Groups, Devices and CMX from Cisco Prime Infrastructure to Cisco Catalyst Center.
b) Select the **Include newly added data during dynamic synchronization** check box to automatically migrate any new addition to the set of migrated Groups, Devices and CMX from Cisco Prime Infrastructure to Cisco Catalyst Center.

Note
Dynamic Synchronization does not support add, update or delete operations for the already migrated data and will not synchronize the data automatically for the following components:

- Maps
- CLI Templates
- ISE Server

Maps, CLI templates, and ISE server migration is achieved only by Force Sync.

- This check box is enabled only if you select the **Enables automatic synchronization of data integrated with Cisco Catalyst Center** check box.
- During force synchronization, if the **Enables automatic synchronization of data integrated with Cisco Catalyst Center** check box is enabled, any modifications that are made through force synchronization to the Location Group and Devices entities are dynamically synced in Cisco Catalyst Center.
- If the **Enables automatic synchronization of data integrated with Cisco Catalyst Center** check box is selected, CMX is dynamically assigned to Cisco Catalyst Center floor groups, when Cisco Prime Infrastructure imports maps to CMX.

c) If you select the **Enable CMX settings** check box, CMX will be pushed with floor groups. If you do not select the **Enable CMX settings** check box, CMX data will not be pushed to the Cisco Catalyst Center server.
d) If you select the **Enable ISE settings** check box, ISE server details will be pushed. If you do not select the **Enable ISE settings** check box, ISE data will not be pushed to the Cisco Catalyst Center server.
e) Select the **Migrate User Defined CLI Templates** check box to migrate the user-defined CLI and/or Composite Templates to Cisco Catalyst Center.
f) Select the **Migrate CLI System Templates** check box to migrate the CLI System Templates to Cisco Catalyst Center.
g) Select the **Migrate RBC Policies** check box to migrate the rule-based compliance policies to the Cisco Catalyst Center.
h) Select the **Migrate Only Sites** check box to migrate only sites excluding devices to the Cisco Catalyst Center and click **Next**.

Step 11 Click **Next** to go to the **Select Groups** page.

Step 12 In the **Select Groups** window:

Expand the **Usage Details** section to view a summary of the site and device count details such as **Recommended**, **Selected for Migration**, and **Available**.

a) Check the **Sync only new selection** check box to migrate only the newly selected groups for migration. If you click Force sync, only newly selected groups will be migrated to Catalyst Center.
b) Uncheck the **Sync only new selection** check box to migrate only the newly selected groups and groups which is already migrated.
c) If you want to delete only the mapping from Prime data migration to Cisco Catalyst Center and retain the instances of migrated sites in the Catalyst Center for the current force sync, uncheck the **Delete sites in Cisco Catalyst Center for the current Force Sync** check box.
d) Check the **Delete sites in Cisco Catalyst Center for the current Force Sync** check box to delete the sites from Cisco Catalyst Center and remove the mapping from prime data migration to Cisco Catalyst Center for the current force sync.

   Uncheck the **Delete sites in Cisco Catalyst Center for the current Force Sync** check box to remove the mapping from Prime Data Migration Tool to Cisco Catalyst Center for the current force sync

e) If you want to move an entire group hierarchy to Cisco Catalyst Center, check the **Replicate Parent Hierarchy** check box and select the location groups in the **Prime Infrastructure Location Groups** pane.

   By default, when you select Site Groups, the buildings, floors, and associated maps are also selected.

   Click **Select Catalyst Center Parent** below the **Prime Infrastructure Location Groups** pane to open the **Cisco Catalyst Center Site Groups** window.

   Marked for Deletion label appears when you deselect an already migrated group with Delete sites in Cisco Catalyst Center for the current Force Sync check box, checked.

   Marked for Unmapping label appears when you deselect an already migrated group with Delete sites in Cisco Catalyst Center for the current Force Sync check box, unchecked.

   Select **Global** from the **Cisco Catalyst Center Site Groups** pane under which you want to move the PI groups and click **OK**. The selected groups will be added in the **Group Movement Log** pane with the label as **Marked for Migration**.

   Update Civic Location window pops up to enter the civic location details for the selected building, if no location details are available. You can choose the **Address** or provide **Latitude** and **Longitude** values and click **Save** to update the civic details for the building which you selected.

f) If you want to move only a building or a floor to Cisco Catalyst Center under a different campus or area, click **Select Catalyst Center Parent** below the **Prime Infrastructure Location Groups** pane to open the **Cisco Catalyst Center Site Groups** window.

   Select a campus or an area from **Cisco Catalyst Center Site Groups** under which you need to move the building and select a building from Cisco Catalyst Center Site Groups under which you need to move the floor and click **OK**. The selected groups will be added in the **Group Movement Log** pane with the label as **Marked for Migration**.

If you click the **Close** or **Cancel** buttons in the **Cisco Catalyst Center Site Groups** window, the window closes without selecting any groups for migration and the **Group Movement Log** pane is not updated with the selected groups.

After you move the groups from Prime Infrastructure to Cisco Catalyst Center, **Marked for Migration** label appears on the moved groups.

Already migrated groups from Prime Infrastructure to Cisco Catalyst Center appear with the label as **Migrated** in the **Prime Infrastructure Location Groups** pane as well as the **Group Movement Log** pane.

The count of selected groups for migration appears as **Selected for Migration** under Sites. The count of selected devices for migration appears as **Selected for Migration** under Devices in **Usage details**.

Available groups count in Cisco Catalyst Center appears in the **Available** section under Sites and available devices count in Cisco Catalyst Center appears in the **Available** section under Devices in **Usage details**.

The **Prime Infrastructure Location Groups** pane lists all the Cisco Prime Infrastructure groups irrespective of any virtual domain.

Note

- Cisco Prime Infrastructure does not migrate devices assigned in a "Campus" to the Cisco Catalyst Center, when the migration tool is used. As a workaround, you can assign your devices to a "Building" or "Floor" type location group before using the migration tool.
- Devices assigned in the Location groups with 'Default' Group type are not migrated to Cisco Catalyst Center.

Catalyst Center Site Builder : To create sites directly in Cisco Catalyst Center so that you can move your sites from Prime Infrastructure to Cisco Catalyst Center, click **Catalyst Center Site Builder**.

In the **Catalyst Center Site Builder** window, if you select the **Area** radio button, enter the following information:

- **Site Name**: Site name that you can create in Cisco Catalyst Center.
- **Parent Site**: Cisco Catalyst Center parent under which you can create the site.

In the **Catalyst Center Site Builder** window, if you select the **Building** radio button to create a building in the Cisco Catalyst Center Area, enter the following information:

- **Site Name**: Building name that you can create in Cisco Catalyst Center.
- **Parent Site**: Cisco Catalyst Center parent under which you can create the building.
- **Civic Location**: Enter the civic location details under which you want to create the building.
- **GPS (Latitude/Longitude)**: These co-ordinates are auto-populated.

Click **Add** to create a site or building in Cisco Catalyst Center and click **Next**.

Step 13 In the **ISE & CMX Credentials** window:

a) Click the **ISE** tab to view the ISE server details that are present in Prime Infrastructure such as:

- Server Status
- Server IP
- Port
- Server Name
- User Name
- Shared Secret: You must ensure that this shared secret field is not empty.
- Timeout: This value must not exceed 20.
- Retries

If no ISE server is present in Prime Infrastructure, a **No data available** message appears.

b) Click the **CMX** tab to can view the list of associated CMX servers for selected groups with the following details:

- Credential Status
- Server IP address

- Device Name
- User Name
- Password
- SSH User Name
- SSH Password

You must update the **SSH Username** and **SSH Password**, if it is not available for the respective CMX.

If the associated CMX is not found, then click **Next**

Note
When the Cisco Prime Infrastructure – Cisco Catalyst Center migration tool is active and auto sync is enabled, then CMX will be dynamically pushed to Cisco Catalyst Center floor groups. Cisco Catalyst Center will there by track the location data for assigned groups.

Step 14 If you check the **Migrate User Defined CLI Templates** check box or **Migrate CLI System Templates** check box in the **Sync Settings** page, then a new page **Select CLI Templates** appears after the CMX page.

Step 15 In the **Select CLI Templates** window:

a) Non-Migrated templates list all the available CLI templates, Composite User Defined templates, and CLI System templates available in Prime Infrastructure. Choose the templates that you want to migrate to Cisco Catalyst Center.
b) Migrated templates list all the migrated templates available in Cisco Catalyst Center. You can update or delete these templates. You can filter the migrated templates with the search filter.

Note
By default all the rows are selected. Selected templates from the list are updated and the deselected templates are deleted from Cisco Catalyst Center.

Step 16 In the **Select Policies** window:

a) To view details for non-migrated policies in Prime Infrastructure, click the **Non-Migrated** policies tab. You can view the Policy Title, Policy Description, and Rule Count.
b) Select the check box for each policy you want to migrate to Cisco Catalyst Center.
c) Click **Migrated** policies tab to view the list all the migrated templates available in Cisco Catalyst Center. You can delete these policies.

Note
The migration of rule-based compliance policies is supported by Prime Data Migration Tool Update 08 for Catalyst Center versions 3.1.5 and later.

Step 17 In the **Summary** window:

You can view a overall summary of selected location groups, devices, associated maps, user-defined templates, CLI System templates, CMX servers, ISE servers, and AP details (including Unified, Autonomous, and Planned APs) before migrating to Cisco Catalyst Center.

a) Click the **CLI templates** tab to view the selected CLI templates listed here. Based on the device selection in the groups you can Add, Update, or Delete the CLI templates, Composite user defined templates, and CLI System templates in Cisco Catalyst Center.
b) In the **Sync Settings** tab, you can view the summary of the sync status.

Step 18 Click **Force Sync** to push data to the Cisco Catalyst Center server after the first migration.

A confirmation message appears **Catalyst Center data will be overwritten by PI data by the Force Sync**. Click **Yes** to proceed or **No** to stop Force Sync.

In the **Prime Infrastructure to Catalyst Center Data Migration Status** page, click the link **Click here to access Change Audit Dashboard**, to view the migration status in the Change Audit Dashboard.

Step 19 From the top-right corner, click **Download Migration Summary**.

The downloaded migration report shows the migrated info comparing Prime Infrastructure sites with Catalyst Center for the last 5 instances of last 5 servers migrated. You can infer the migration status of Groups, Devices, and APs migrated from Prime Infrastructure to Catalyst Center.

What to do next

1. If you want to revert the site hierarchy in Cisco Catalyst Center, uncheck the migrated groups in the Prime Data Migration tool and click **Force Sync**. This step deletes the migrated groups in Cisco Catalyst Center.

   If you want to revert the device assignment (devices will be unassigned from Cisco Catalyst Center sites and assigned to migrated groups if the same devices are present both in Cisco Prime Infrastructure groups and Cisco Catalyst Center sites), perform the following steps:

   - Uncheck the migrated groups in the Prime Data Migration tool and click **Force Sync**. This step deletes the migrated groups and devices in Cisco Catalyst Center.
   - Add and assign or provision the devices in Cisco Catalyst Center in the required sites.

   The pre-migration site hierarchy appears in Cisco Catalyst Center.

   To migrate your Cisco Prime Infrastructure data again using the Prime Data Migration Tool , unassign the devices in Cisco Prime Infrastructure for the required groups and migrate the data.

2. Multi-Catalyst Center is supported from Prime Data Migration Tool Update 02.0. This feature allows you to migrate to multiple Catalyst Center clusters (one Catalyst Center server at a time) and retain the migration data for each Catalyst Center server.

3. Refer the important notes about Cisco Prime Infrastructure - Cisco Catalyst Center migration, see Important Notes, on page 16 .

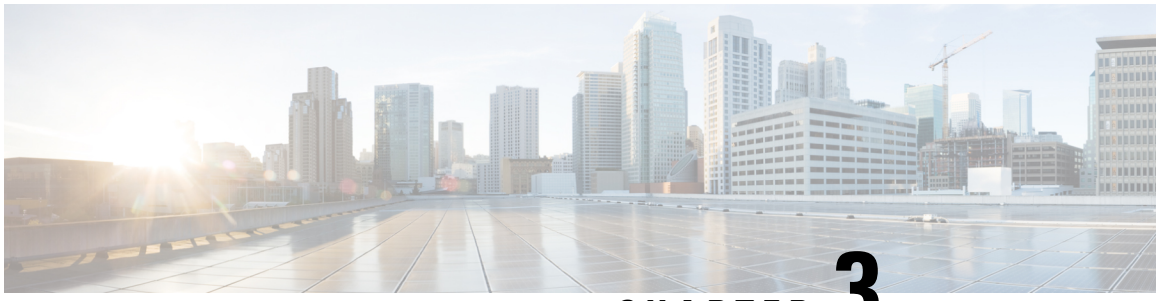
Important Notes

This section contains important notes about Cisco Prime Infrastructure - Cisco Catalyst Center migration:

- For HA deployments, installation of the PI 3.10.6 security update 03 and the PI 3.10.6 security update 03 system patch is a mandatory prerequisite for PDMT version 8.1 UBF in primary and secondary servers.
- Sync Settings configuration is retained on loading Catalyst Center Archive.
- You can refer FAQ for more information.
- You can integrate only one Cisco Catalyst Center server at a time.
- During migration, launching PDMT automatically redirects to the Summary Page.
- When migration is in progress, you cannot remove or update the Catalyst Center Server.

- The Prime Data Migration tool supports port number TCP 8078. For more information, see Ports Used by Prime Infrastructure and Assurance in the *Cisco Prime Infrastructure 3.10 Quick Start Guide*.
- When the integration or initialization phase remains in the loading state for more than 5 minutes, check for any firewall restrictions, and ensure that no firewall restrictions are blocking or redirecting communication.
- CMX must be installed with a self or CA signed certificate to migrate from Prime Data Migration Tool to Cisco Catalyst Center, 2.3.7.5 and above.
- You can migrate obstacles that are created within an image to the Cisco Catalyst Center.
- Maps Migration fails when you migrate other groups along with the outdoor area to a non-global area.
- Outdoor area migration is not supported in Prime Data Migration tool.
- You can migrate ISE Server and CLI Templates along with the group migration.
- Groups with empty/null civic location values will be ignored for migration.
- When migrating ISE from Prime Infrastructure to Catalyst Center, ISE gets added to Catalyst Center in the failed state. To avoid this make sure to do the following:
  - Activate PXGrid on ISE
  - Enable ERS on ISE
  - ISEs CLI and GUI password must be the same
- Cisco Catalyst 9800 Series Wireless Controllers can be managed in multiple Cisco Prime Infrastructure servers or in Cisco Catalyst Center and Prime Infrastructure server as long as the subscription limit is available. To get managed, a single Prime Infrastructure server consumes or requires 30 config telemetry subscriptions, and a single Catalyst Center requires 70 or more telemetry subscriptions. IOS XE - 17.6 and later versions support 128 telemetry subscriptions.
- You use a single session of the migration at a time for the same Cisco Prime Infrastructure server and Cisco Catalyst Center server pair.
- Once the CMX is migrated to Cisco Catalyst Center, it will not be managed by Cisco Prime Infrastructure.
- Any legacy devices which are not supported by Cisco Catalyst Center chosen for migration will be added to Cisco Catalyst Center inventory under Device Type column -“Unsupported Cisco Device”.
- Devices managed with SNMP v2 and v3 can be migrated to Cisco Catalyst Center.
- Any devices managed only with SNMP v1 or SNMP v3 with DES protocol of AuthPriv credentials in Cisco Prime Infrastructure cannot be migrated to Cisco Catalyst Center.
- Also, bulk migration fails if any one of the devices managed by SNMP v1 or v3 with DES protocol of AuthPriv credentials.
- Only the basic information of the groups will be migrated, but not the rules and profiles assigned to group.
- After integration, while upgrading Cisco Catalyst Center to an unsupported version, error will be thrown as “Unsupported Version” and migration will stop.
- Access Points positioned in the maps in Cisco Prime Infrastructure will migrate to Cisco Catalyst Center, only if we manage its WLC devices with CLI Credentials.

- For Composite template Migration - The associated template should not be System template. If any composite template with system template will not get migrated.
- During composite template migration all the associated template in composite template should be having the same device type. Otherwise migration will fail.



CHAPTER 3

Migrate Cisco Prime Infrastructure Data to Cisco Catalyst Center Using Prime Data Migration Tool Update 08

This chapter provides information on migrating data and important points related to migrating Cisco Prime Infrastructure to Cisco Catalyst Center using the Prime Data Migration Tool Update 08.

- Prerequisites for Using Prime Data Migration Tool Update 08, on page 19
- Migrate Data from Cisco Prime Infrastructure to Cisco Catalyst Center using Prime Data Migration Tool Update 08, on page 21
- Important Notes, on page 28

Prerequisites for Using Prime Data Migration Tool Update 08

This section lists the prerequisites before using the Prime Data Migration Tool Update 08

- Ensure that you run the Cisco Catalyst Center AURA command line tool. The AURA tool performs a variety of health, scale and upgrade readiness checks for the Cisco Catalyst Center and the rest of the Fabric network. AURA ensures that Cisco Catalyst Center and its component services are all healthy and available before you start a migration. For more information on using Cisco Catalyst Center AURA tool, see Enhanced Visibility into the Cisco Catalyst Center using AURA.
- Ensure that you run the Cisco PDART (Cisco Prime Infrastructure Cisco Catalyst Center Assessment & Readiness Tool) analyzes a Cisco Prime Infrastructure deployment and assesses whether Cisco Catalyst Center supports the current deployment. For more information, see Cisco PDART - A Cisco Catalyst Center Readiness tool for the Cisco Prime Infrastructure.

Prerequisites for Using PI 3.10.6 Prime Data Migration Tool Update 08

Ensure that:

- You install Cisco Prime Infrastructure 3.10.6 + 3.10.6 System Patch or PI 3.10.6 Prime Data Migration Tool Update 07.
- You have Root or Super Users access privileges of Cisco Prime Infrastructure.
- You have access credentials of Cisco Catalyst Center.

- Refer the Cisco Prime Infrastructure and Cisco Catalyst Center Compatibility Matrix, on page 1.

Prerequisites for Using PI 3.9.x Prime Data Migration Tool Update 08

Ensure that:

- You install Cisco Prime Infrastructure 3.9.1 + PI 3.9.1 Update 02 or PI 3.9 (Upgrade) + PI 3.9 Oracle Patch + PI 3.9.1 + PI 3.9.1 Update 02 or PI 3.9.x Prime Data Migration Tool Update 05 or PI 3.9.x Prime Data Migration Tool Update 05.01 or PI 3.9.x Prime Data Migration Tool Update 05.02 or PI 3.9.x Prime Data Migration Tool Update 06 or PI 3.9.x Prime Data Migration Tool Update 07
- If you need support for Catalyst 9800 16.12.x version, you will need to install PI_3_9_Oct_Oracle_patch-1.0.8.ubf patch before you install PI 3.9.1. For instructions to install the Oracle Patch, see *Installing Cisco Prime Infrastructure System Patch 3.9* section in the Cisco Prime Infrastructure 3.9 Administrator Guide.
- You have Root or Super Users access privileges of Cisco Prime Infrastructure.
- You have access credentials of Cisco Catalyst Center.
- Refer the Cisco Prime Infrastructure and Cisco Catalyst Center Compatibility Matrix, on page 1.

Prerequisites for Using PI 3.8.x Prime Data Migration Tool Update 08

Ensure that:

- You install Cisco Prime Infrastructure 3.8.1 Update 03 or PI 3.8.x Prime Data Migration Tool Update 05 or PI 3.8.x Prime Data Migration Tool Update 05.01 or PI 3.8.x Prime Data Migration Tool Update 05.02 or PI 3.8.x Prime Data Migration Tool Update 06 or PI 3.8.x Prime Data Migration Tool Update 07.
- You have Root or Super Users access privileges of Cisco Prime Infrastructure.
- You have access credentials of Cisco Catalyst Center.
- Refer the Cisco Prime Infrastructure and Cisco Catalyst Center Compatibility Matrix, on page 1.

Prerequisites for Using PI 3.7.x Prime Data Migration Tool Update 08

Ensure that:

- You install Cisco Prime Infrastructure 3.7.1 update 06 or PI 3.7.x Prime Data Migration Tool Update 05 or PI 3.7.x Prime Data Migration Tool Update 05.01 or PI 3.7.xPrime Data Migration Tool Update 05.02 or PI 3.7.x Prime Data Migration Tool Update 06 or PI 3.7.x Prime Data Migration Tool Update 07.
- You have Root or Super Users access privileges of Cisco Prime Infrastructure.
- You have access credentials of Cisco Catalyst Center.
- Refer the Cisco Prime Infrastructure and Cisco Catalyst Center Compatibility Matrix, on page 1.

Migrate Data from Cisco Prime Infrastructure to Cisco Catalyst Center using Prime Data Migration Tool Update 08

This section helps you to migrate your Cisco Prime Infrastructure data from:

- PI 3.10.6 + 3.10.6 System Patch or PI 3.10.6 Prime Data Migration Tool Update 07 to Cisco Catalyst Center using PI 3.10.6 Prime Data Migration Tool Update 08
- PI 3.9.1 Update 02, PI 3.9.x Prime Data Migration Tool Update 05, PI 3.9.x Prime Data Migration Tool Update 05.01, PI 3.9.x Prime Data Migration Tool Update 05.02, PI 3.9.x Prime Data Migration Tool Update 06, PI 3.9.x Prime Data Migration Tool Update 07 to Cisco Catalyst Center using PI 3.9.x Prime Data Migration Tool Update 08.
- PI 3.8.1 update 03, PI 3.8.x Prime Data Migration Tool Update 05, PI 3.8.x Prime Data Migration Tool Update 05.01, PI 3.8.x Prime Data Migration Tool Update 05.02, PI 3.8.x Prime Data Migration Tool Update 06, PI 3.8.x Prime Data Migration Tool Update 07 to Cisco Catalyst Center using PI 3.8.x Prime Data Migration Tool Update 08.
- PI 3.7.1 update 06, PI 3.7.x Prime Data Migration Tool Update 05, PI 3.7.x Prime Data Migration Tool Update 05.01, PI 3.7.x Prime Data Migration Tool Update 05.02, PI 3.7.x Prime Data Migration Tool Update 06, PI 3.7.x Prime Data Migration Tool Update 07 to Cisco Catalyst Center using PI 3.7.x Prime Data Migration Tool Update 08.

Use this procedure to access the Cisco Prime Infrastructure to Cisco Catalyst Center migration by logging in to Cisco Prime Infrastructure:

Before you begin

Before launching the Prime Data Migration Tool, run the Cisco Prime Infrastructure Data Assessment & Readiness Tool (PDART). This tool analyzes Cisco Prime Infrastructure deployment and assesses whether Cisco Catalyst Center supports the current deployment. For more information about installing and running Cisco PDART Update 05, See Use PDART - a Catalyst Center Readiness Tool.

To generate the PDART report for Catalyst Center version compatibility, complete these steps:

- From the **Select CatC version** drop-down list, choose the Catalyst Center version.
- Click **Execute PDART**.
- Click **Download Report** to download the PDART report in the PDF format.

Procedure

Step 1 Choose **Administration** > **Settings** > **System Settings** > **General** > **Prime Data Migration Tool**, and then click **Launch Prime Data Migration Tool** to open **Prime Infrastructure - Prime Data Migration Tool** page.

For 3.9.1, and 3.10.6 you can either:

Click **Prime Data Migration Tool** in the **Mega Menu** page.

Or

Launch Prime Data Migration Tool in the Getting Started page. Choose **Settings** > **Getting Started** > **Prime Data Migration Tool**, and then click **Launch Prime Data Migration Tool** to open the **Prime Infrastructure - Prime Data Migration Tool** page.

Step 2 From the top-right corer, click **Job history**.

The **Prime Data Migration Job History** window appears.

Step 3 In the **Prime Data Migration Job History window**, do the following:

a) Click **Force Sync** to view the list of jobs that are force synced and the job details such as Cisco Catalyst Center IP, Start Time, End Time, Status and Info. You can click on the ***i*** icon next to the status column of the corresponding jobs to view the detailed information. You can also click on the completed or failed status to view the respective job summary in the **Job Summary** window.

b) Click **Dynamic Sync** to view the list of dynamically synced job details such as Cisco Catalyst Center IP, Start Time, End Time, Status, and Info. You can click on the i icon next to the status column of the corresponding jobs to view the detailed information.

c) You can search for the job history by choosing a category from the drop-down list such as Groups/Maps, Devices, ISE, CMX and Templates or by using the search box.

If you choose Devices or ISE or CMX categories, enter the IP address in the search box and click Search to retrieve the job details.

Step 4 From the top-right corner, click **Download Logs** to download the prime migration logs in the .ZIP format.

Step 5 Click **Add Cisco Catalyst Center** Server.

Step 6 Enter the following Cisco Catalyst Center server details:

a) Server IP Address or Hostname.

b) Username.

c) Password.

d) Confirm Password.

You can integrate only one Cisco Catalyst Center server at a time.

When an invalid IP (invalid TOFU certificate) is added in the 'IP Address' field , a pop up will be displayed with the error message 'Invalid Certificate' and "To delete the existing certificate click here". You can remove the invalid certificate directly from the TOFU certification user interface by clicking the click here hyperlink in the error message.

Step 7 Click the **Enable Auto-Backup** radio button to backup the migrated data automatically when you remove or update the Catalyst Center server.

Step 8 Click **Save**, to check server reachability.

Step 9 (Optional) Click **Multi Server Settings**, to archive, and restore the data that is migrated from Prime Infrastructure to Catalyst Center. It is recommended to use this option after Force Sync.

You can use the following options to archive the migrated data:

- **List of Cisco Catalyst Center Archive Available** - Displays the list of available archives.
- **Back-up Current Cisco Catalyst Center Pairing** - Backup the currently paired Cisco Catalyst Center server and Sync Settings selection details in the migration tool.
- **Back-up Current & Load Cisco Catalyst Center Archive** - Current Cisco Catalyst Center server and its details are backed up and you are prompted to load any other available archive by entering the IP address.
- **Load Catalyst Center Archive Only**- Load the Cisco Catalyst Center backed up server and its details.

- **Delete Cisco Catalyst Center Archive** - Deletes the selected Catalyst Center archives.

Step 10 Configure the necessary settings in the **Sync Settings** window:

Supported or Available Limits of the Cisco Catalyst Center server for the **Site Groups/Site Maps** , **Devices**, and **Templates** is shown. Supported or Available Limits of Cisco Catalyst Center varies based on the Cisco Catalyst Center server model.

The Supported/Available limits are specified in the following table:

Table 4: Supported/ Available limits for Catalyst Center

Catalyst Center Model	Site Groups/ Site Maps	Devices	Templates
DN2-HW-APL DN3-HW-APL	2500	2000	1000
DN2-HW-APL-L DN3-HW-APL-L	2500	4000	1000
DN2-HW-APL-XL DN3-HW-APL-XL	2500	8000	1000

Table 5: Supported/Available Limits for Catalyst Center on ESXi

Catalyst Center on Esxi	Site Groups/Site Maps	Devices	Templates
32vCPU/256G	2500	2000	1000

a) Check the **Enables automatic synchronization of data integrated with Cisco Catalyst Center** check box to automatically synchronize any updates to the set of migrated Groups, Devices and CMX from Cisco Prime Infrastructure to Cisco Catalyst Center.

b) Select the **Include newly added data during dynamic synchronization** check box to automatically migrate any new addition to the set of migrated Groups, Devices and CMX from Cisco Prime Infrastructure to Cisco Catalyst Center.

Note
Dynamic Synchronization does not support add, update or delete operations for the already migrated data and will not synchronize the data automatically for the following components:

- Maps
- CLI Templates
- ISE Server

Maps, CLI templates, and ISE server migration is achieved only by Force Sync.

- This check box is enabled only if you select the **Enables automatic synchronization of data integrated with Cisco Catalyst Center** check box.
- During force synchronization, if the **Enables automatic synchronization of data integrated with Cisco Catalyst Center** check box is enabled, any modifications that are made through force synchronization to the Location Group and Devices entities are dynamically synced in Cisco Catalyst Center.

- If the **Enables automatic synchronization of data integrated with Cisco Catalyst Center** check box is selected, CMX is dynamically assigned to Cisco Catalyst Center floor groups, when Cisco Prime Infrastructure imports maps to CMX.

c) If you select the **Enable CMX settings** check box, CMX will be pushed with floor groups. If you do not select the **Enable CMX settings** check box, CMX data will not be pushed to the Cisco Catalyst Center server.

d) If you select the **Enable ISE settings** check box, ISE server details will be pushed. If you do not select the **Enable ISE settings** check box, ISE data will not be pushed to the Cisco Catalyst Center server.

e) Select the **Migrate User Defined CLI Templates** check box to migrate the user-defined CLI and/or Composite Templates to Cisco Catalyst Center.

f) Select the **Migrate CLI System Templates** check box to migrate the CLI System Templates to Cisco Catalyst Center.

g) Select the **Migrate RBC Policies** check box to migrate the rule-based compliance policies to the Cisco Catalyst Center.

h) Select the **Migrate Only Sites** check box to migrate only sites excluding devices to the Cisco Catalyst Center and click **Next**.

Step 11 Click **Next** to go to the **Select Groups** page.

Step 12 In the **Select Groups** window:

Expand the **Usage Details** section to view a summary of the site and device count details such as **Recommended**, **Selected for Migration**, and **Available**.

a) Check the **Sync only new selection** check box to migrate only the newly selected groups for migration. If you click Force sync, only newly selected groups will be migrated to Catalyst Center.

b) Uncheck the **Sync only new selection** check box to migrate only the newly selected groups and groups which is already migrated.

c) If you want to delete only the mapping from Prime data migration to Cisco Catalyst Center and retain the instances of migrated sites in the Catalyst Center for the current force sync, uncheck the **Delete sites in Cisco Catalyst Center for the current Force Sync** check box.

d) Check the **Delete sites in Cisco Catalyst Center for the current Force Sync** check box to delete the sites from Cisco Catalyst Center and remove the mapping from prime data migration to Cisco Catalyst Center for the current force sync.

Uncheck the **Delete sites in Cisco Catalyst Center for the current Force Sync** check box to remove the mapping from Prime Data Migration Tool to Cisco Catalyst Center for the current force sync

e) If you want to move an entire group hierarchy to Cisco Catalyst Center, check the **Replicate Parent Hierarchy** check box and select the location groups in the **Prime Infrastructure Location Groups** pane.

By default, when you select Site Groups, the buildings, floors, and associated maps are also selected.

Click **Select Catalyst Center Parent** below the **Prime Infrastructure Location Groups** pane to open the **Cisco Catalyst Center Site Groups** window.

Marked for Deletion label appears when you deselect an already migrated group with Delete sites in Cisco Catalyst Center for the current Force Sync check box, checked.

Marked for Unmapping label appears when you deselect an already migrated group with Delete sites in Cisco Catalyst Center for the current Force Sync check box, unchecked.

Select **Global** from the **Cisco Catalyst Center Site Groups** pane under which you want to move the PI groups and click **OK**. The selected groups will be added in the **Group Movement Log** pane with the label as **Marked for Migration**.

Update Civic Location window pops up to enter the civic location details for the selected building, if no location details are available. You can choose the **Address** or provide **Latitude** and **Longitude** values and click **Save** to update the civic details for the building which you selected.

f) If you want to move only a building or a floor to Cisco Catalyst Center under a different campus or area, click **Select Catalyst Center Parent** below the **Prime Infrastructure Location Groups** pane to open the **Cisco Catalyst Center Site Groups** window.

Select a campus or an area from **Cisco Catalyst Center Site Groups** under which you need to move the building and select a building from Cisco Catalyst Center Site Groups under which you need to move the floor and click **OK**. The selected groups will be added in the **Group Movement Log** pane with the label as **Marked for Migration**.

If you click the **Close** or **Cancel** buttons in the **Cisco Catalyst Center Site Groups** window, the window closes without selecting any groups for migration and the **Group Movement Log** pane is not updated with the selected groups.

After you move the groups from Prime Infrastructure to Cisco Catalyst Center, **Marked for Migration** label appears on the moved groups.

Already migrated groups from Prime Infrastructure to Cisco Catalyst Center appear with the label as **Migrated** in the **Prime Infrastructure Location Groups** pane as well as the **Group Movement Log** pane.

The count of selected groups for migration appears as **Selected for Migration** under Sites. The count of selected devices for migration appears as **Selected for Migration** under Devices in **Usage details**.

Available groups count in Cisco Catalyst Center appears in the **Available** section under Sites and available devices count in Cisco Catalyst Center appears in the **Available** section under Devices in **Usage details**.

The **Prime Infrastructure Location Groups** pane lists all the Cisco Prime Infrastructure groups irrespective of any virtual domain.

Note

- Cisco Prime Infrastructure does not migrate devices assigned in a "Campus" to the Cisco Catalyst Center, when the migration tool is used. As a workaround, you can assign your devices to a "Building" or "Floor" type location group before using the migration tool.
- Devices assigned in the Location groups with 'Default' Group type are not migrated to Cisco Catalyst Center.

Catalyst Center Site Builder : To create sites directly in Cisco Catalyst Center so that you can move your sites from Prime Infrastructure to Cisco Catalyst Center, click **Catalyst Center Site Builder**.

In the **Catalyst Center Site Builder** window, if you select the **Area** radio button, enter the following information:

- **Site Name**: Site name that you can create in Cisco Catalyst Center.
- **Parent Site**: Cisco Catalyst Center parent under which you can create the site.

In the **Catalyst Center Site Builder** window, if you select the **Building** radio button to create a building in the Cisco Catalyst Center Area, enter the following information:

- **Site Name**: Building name that you can create in Cisco Catalyst Center.
- **Parent Site**: Cisco Catalyst Center parent under which you can create the building.
- **Civic Location**: Enter the civic location details under which you want to create the building.
- **GPS (Latitude/Longitude)**: These co-ordinates are auto-populated.

Click **Add** to create a site or building in Cisco Catalyst Center and click **Next**.

Step 13 In the **ISE & CMX Credentials** window:

a) Click the **ISE** tab to view the ISE server details that are present in Prime Infrastructure such as:

- Server Status
- Server IP
- Port
- Server Name
- User Name
- Shared Secret: You must ensure that this shared secret field is not empty.
- Timeout: This value must not exceed 20.
- Retries

If no ISE server is present in Prime Infrastructure, a **No data available** message appears.

b) Click the **CMX** tab to can view the list of associated CMX servers for selected groups with the following details:

- Credential Status
- Server IP address
- Device Name
- User Name
- Password
- SSH User Name
- SSH Password

You must update the **SSH Username** and **SSH Password**, if it is not available for the respective CMX.

If the associated CMX is not found, then click **Next**

Note
When the Cisco Prime Infrastructure – Cisco Catalyst Center migration tool is active and auto sync is enabled, then CMX will be dynamically pushed to Cisco Catalyst Center floor groups. Cisco Catalyst Center will there by track the location data for assigned groups.

Step 14 If you check the **Migrate User Defined CLI Templates** check box or **Migrate CLI System Templates** check box in the **Sync Settings** page, then a new page **Select CLI Templates** appears after the CMX page.

Step 15 In the **Select CLI Templates** window:

a) Non-Migrated templates list all the available CLI templates, Composite User Defined templates, and CLI System templates available in Prime Infrastructure. Choose the templates that you want to migrate to Cisco Catalyst Center.

b) Migrated templates list all the migrated templates available in Cisco Catalyst Center. You can update or delete these templates. You can filter the migrated templates with the search filter.

Note
By default all the rows are selected. Selected templates from the list are updated and the deselected templates are deleted from Cisco Catalyst Center.

Step 16 In the **Select Policies** window:

a) To view details for non-migrated policies in Prime Infrastructure, click the **Non-Migrated** policies tab. You can view the Policy Title, Policy Description, and Rule Count.

b) Select the check box for each policy you want to migrate to Cisco Catalyst Center.

c) Click **Migrated** policies tab to view the list all the migrated templates available in Cisco Catalyst Center. You can delete these policies.

Note
The migration of rule-based compliance policies is supported by Prime Data Migration Tool Update 08 for Catalyst Center versions 3.1.5 and later.

Step 17 In the **Summary** window:

You can view a overall summary of selected location groups, devices, associated maps, user-defined templates, CLI System templates, CMX servers, ISE servers, and AP details (including Unified, Autonomous, and Planned APs) before migrating to Cisco Catalyst Center.

a) Click the **CLI templates** tab to view the selected CLI templates listed here. Based on the device selection in the groups you can Add, Update, or Delete the CLI templates, Composite user defined templates, and CLI System templates in Cisco Catalyst Center.

b) In the **Sync Settings** tab, you can view the summary of the sync status.

Step 18 Click **Force Sync** to push data to the Cisco Catalyst Center server after the first migration.

A confirmation message appears **Catalyst Center data will be overwritten by PI data by the Force Sync**. Click **Yes** to proceed or **No** to stop Force Sync.

In the **Prime Infrastructure to Catalyst Center Data Migration Status** page, click the link **Click here to access Change Audit Dashboard**, to view the migration status in the Change Audit Dashboard.

Step 19 From the top-right corner, click **Download Migration Summary**.

The downloaded migration report shows the migrated info comparing Prime Infrastructure sites with Catalyst Center for the last 5 instances of last 5 servers migrated. You can infer the migration status of Groups, Devices, and APs migrated from Prime Infrastructure to Catalyst Center.

What to do next

1. If you want to revert the site hierarchy in Cisco Catalyst Center, uncheck the migrated groups in the Prime Data Migration tool and click **Force Sync**. This step deletes the migrated groups in Cisco Catalyst Center.

   If you want to revert the device assignment (devices will be unassigned from Cisco Catalyst Center sites and assigned to migrated groups if the same devices are present both in Cisco Prime Infrastructure groups and Cisco Catalyst Center sites), perform the following steps:

   - Uncheck the migrated groups in the Prime Data Migration tool and click **Force Sync**. This step deletes the migrated groups and devices in Cisco Catalyst Center.
   - Add and assign or provision the devices in Cisco Catalyst Center in the required sites.

   The pre-migration site hierarchy appears in Cisco Catalyst Center.

   To migrate your Cisco Prime Infrastructure data again using the Prime Data Migration Tool , unassign the devices in Cisco Prime Infrastructure for the required groups and migrate the data.

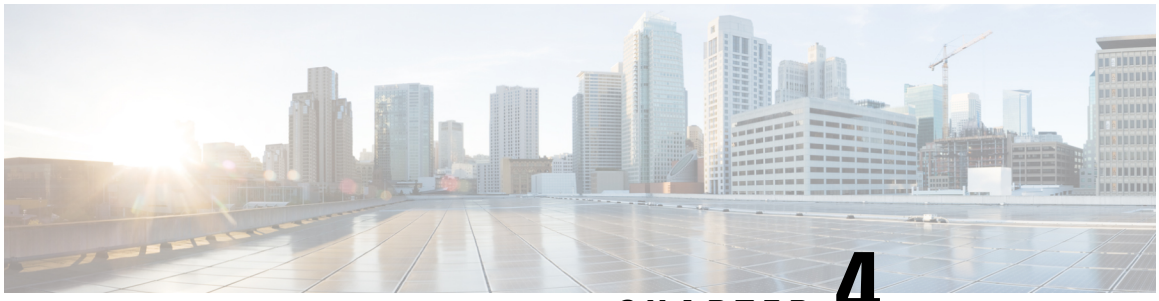
2. Multi-Catalyst Center is supported from Prime Data Migration Tool Update 02.0. This feature allows you to migrate to multiple Catalyst Center clusters (one Catalyst Center server at a time) and retain the migration data for each Catalyst Center server.
3. Refer the important notes about Cisco Prime Infrastructure - Cisco Catalyst Center migration, see Important Notes, on page 28 .

Important Notes

This section contains important notes about Cisco Prime Infrastructure - Cisco Catalyst Center migration:

- Sync Settings configuration is retained on loading Catalyst Center Archive.
- You can refer FAQ for more information.
- You can integrate only one Cisco Catalyst Center server at a time.
- During migration, launching PDMT automatically redirects to the Summary Page.
- When migration is in progress, you cannot remove or update the Catalyst Center Server.
- The Prime Data Migration tool supports port number TCP 8078. For more information, see Ports Used by Prime Infrastructure and Assurance in the *Cisco Prime Infrastructure 3.10 Quick Start Guide*.
- When the integration or initialization phase remains in the loading state for more than 5 minutes, check for any firewall restrictions, and ensure that no firewall restrictions are blocking or redirecting communication.
- CMX must be installed with a self or CA signed certificate to migrate from Prime Data Migration Tool to Cisco Catalyst Center, 2.3.7.5 and above.
- You can migrate obstacles that are created within an image to the Cisco Catalyst Center.
- Maps Migration fails when you migrate other groups along with the outdoor area to a non-global area.
- Outdoor area migration is not supported in Prime Data Migration tool.
- You can migrate ISE Server and CLI Templates along with the group migration.
- Groups with empty/null civic location values will be ignored for migration.
- When migrating ISE from Prime Infrastructure to Catalyst Center, ISE gets added to Catalyst Center in the failed state. To avoid this make sure to do the following:
  - Activate PXGrid on ISE
  - Enable ERS on ISE
  - ISEs CLI and GUI password must be the same
- Cisco Catalyst 9800 Series Wireless Controllers can be managed in multiple Cisco Prime Infrastructure servers or in Cisco Catalyst Center and Prime Infrastructure server as long as the subscription limit is available. To get managed, a single Prime Infrastructure server consumes or requires 30 config telemetry subscriptions, and a single Catalyst Center requires 70 or more telemetry subscriptions. IOS XE - 17.6 and later versions support 128 telemetry subscriptions.

- You use a single session of the migration at a time for the same Cisco Prime Infrastructure server and Cisco Catalyst Center server pair.
- Once the CMX is migrated to Cisco Catalyst Center, it will not be managed by Cisco Prime Infrastructure.
- Any legacy devices which are not supported by Cisco Catalyst Center chosen for migration will be added to Cisco Catalyst Center inventory under Device Type column -“Unsupported Cisco Device”.
- Devices managed with SNMP v2 and v3 can be migrated to Cisco Catalyst Center.
- Any devices managed only with SNMP v1 or SNMP v3 with DES protocol of AuthPriv credentials in Cisco Prime Infrastructure cannot be migrated to Cisco Catalyst Center.
- Also, bulk migration fails if any one of the devices managed by SNMP v1 or v3 with DES protocol of AuthPriv credentials.
- Only the basic information of the groups will be migrated, but not the rules and profiles assigned to group.
- After integration, while upgrading Cisco Catalyst Center to an unsupported version, error will be thrown as “Unsupported Version” and migration will stop.
- Access Points positioned in the maps in Cisco Prime Infrastructure will migrate to Cisco Catalyst Center, only if we manage its WLC devices with CLI Credentials.
- For Composite template Migration - The associated template should not be System template. If any composite template with system template will not get migrated.
- During composite template migration all the associated template in composite template should be having the same device type. Otherwise migration will fail.



CHAPTER 4

Migrate Cisco Prime Infrastructure Data to Cisco Catalyst Center Using Prime Data Migration Tool Update 07

This chapter provides information on migrating data and important points related to migrating Cisco Prime Infrastructure to Cisco Catalyst Center using the Prime Data Migration Tool Update 07.

- Prerequisites for Using Prime Data Migration Tool Update 07, on page 31
- Migrating Data from Cisco Prime Infrastructure to Cisco Catalyst Center using Prime Data Migration Tool Update 07, on page 33
- Important Notes, on page 39

Prerequisites for Using Prime Data Migration Tool Update 07

This section lists the prerequisites before using the Prime Data Migration Tool Update 07

- Ensure that you run the Cisco Catalyst Center AURA command line tool. The AURA tool performs a variety of health, scale and upgrade readiness checks for the Cisco Catalyst Center and the rest of the Fabric network. AURA ensures that Cisco Catalyst Center and its component services are all healthy and available before you start a migration. For more information on using Cisco Catalyst Center AURA tool, see Enhanced Visibility into the Cisco Catalyst Center using AURA.
- Ensure that you run the Cisco PDART (Cisco Prime Infrastructure Cisco Catalyst Center Assessment & Readiness Tool) analyzes a Cisco Prime Infrastructure deployment and assesses whether Cisco Catalyst Center supports the current deployment. For more information, see Cisco PDART - A Cisco Catalyst Center Readiness tool for the Cisco Prime Infrastructure.

Prerequisites for Using PI 3.10.6 Prime Data Migration Tool Update 07

Ensure that:

- You install Cisco Prime Infrastructure 3.10.6 + 3.10.6 System Patch.
- You have Root or Super Users access privileges of Cisco Prime Infrastructure.
- You have access credentials of Cisco Catalyst Center.

- Refer the Cisco Prime Infrastructure and Cisco Catalyst Center Compatibility Matrix, on page 1.

Prerequisites for Using PI 3.9.x Prime Data Migration Tool Update 07

Ensure that:

- You install Cisco Prime Infrastructure 3.9.1 + PI 3.9.1 Update 02 or PI 3.9 (Upgrade) + PI 3.9 Oracle Patch + PI 3.9.1 + PI 3.9.1 Update 02 or PI 3.9.x Prime Data Migration Tool Update 05 or PI 3.9.x Prime Data Migration Tool Update 05.01 or PI 3.9.x Prime Data Migration Tool Update 05.02 or PI 3.9.x Prime Data Migration Tool Update 06.
- If you need support for Catalyst 9800 16.12.x version, you will need to install PI_3_9_Oct_Oracle_patch-1.0.8.ubf patch before you install PI 3.9.1. For instructions to install the Oracle Patch, see *Installing Cisco Prime Infrastructure System Patch 3.9* section in the Cisco Prime Infrastructure 3.9 Administrator Guide.
- You have Root or Super Users access privileges of Cisco Prime Infrastructure.
- You have access credentials of Cisco Catalyst Center.
- Refer the Cisco Prime Infrastructure and Cisco Catalyst Center Compatibility Matrix, on page 1.

Prerequisites for Using PI 3.8.x Prime Data Migration Tool Update 07

Ensure that:

- You install Cisco Prime Infrastructure 3.8.1 Update 03 or PI 3.8.x Prime Data Migration Tool Update 05 or PI 3.8.x Prime Data Migration Tool Update 05.01 or PI 3.8.x Prime Data Migration Tool Update 05.02 or PI 3.8.x Prime Data Migration Tool Update 06.
- You have Root or Super Users access privileges of Cisco Prime Infrastructure.
- You have access credentials of Cisco Catalyst Center.
- Refer the Cisco Prime Infrastructure and Cisco Catalyst Center Compatibility Matrix, on page 1.

Prerequisites for Using PI 3.7.x Prime Data Migration Tool Update 07

Ensure that:

- You install Cisco Prime Infrastructure 3.7.1 update 06 or PI 3.7.x Prime Data Migration Tool Update 05 or PI 3.7.x Prime Data Migration Tool Update 05.01 or PI 3.7.x Prime Data Migration Tool Update 05.02 or PI 3.7.x Prime Data Migration Tool Update 06.
- You have Root or Super Users access privileges of Cisco Prime Infrastructure.
- You have access credentials of Cisco Catalyst Center.
- Refer the Cisco Prime Infrastructure and Cisco Catalyst Center Compatibility Matrix, on page 1.

Migrating Data from Cisco Prime Infrastructure to Cisco Catalyst Center using Prime Data Migration Tool Update 07

This section helps you to migrate your Cisco Prime Infrastructure data from:

- PI 3.10.6 + 3.10.6 System Patch to Cisco Catalyst Center using PI 3.10.6 Prime Data Migration Tool Update 07
- PI 3.9.1 Update 02, PI 3.9.x Prime Data Migration Tool Update 05, PI 3.9.x Prime Data Migration Tool Update 05.01, PI 3.9.x Prime Data Migration Tool Update 05.02, PI 3.9.x Prime Data Migration Tool Update 06 to Cisco Catalyst Center using PI 3.9.x Prime Data Migration Tool Update 07.
- PI 3.8.1 update 03, PI 3.8.x Prime Data Migration Tool Update 05, PI 3.8.x Prime Data Migration Tool Update 05.01, PI 3.8.x Prime Data Migration Tool Update 05.02, PI 3.8.x Prime Data Migration Tool Update 06 to Cisco Catalyst Center using PI 3.8.x Prime Data Migration Tool Update 07.
- PI 3.7.1 update 06, PI 3.7.x Prime Data Migration Tool Update 05, PI 3.7.x Prime Data Migration Tool Update 05.01, PI 3.7.x Prime Data Migration Tool Update 05.02, PI 3.7.x Prime Data Migration Tool Update 06 to Cisco Catalyst Center using PI 3.7.x Prime Data Migration Tool Update 07.

Follow this procedure to access the Cisco Prime Infrastructure to Cisco Catalyst Center migration by logging in to Cisco Prime Infrastructure:

Procedure

Step 1 Choose **Administration** > **Settings** > **System Settings** > **General** > **Prime Data Migration Tool**, and then click **Launch Prime Data Migration Tool** to open **Prime Infrastructure - Prime Data Migration Tool** page.

For 3.9.1, and 3.10.6 you can either:

Click **Prime Data Migration Tool** in the **Mega Menu** page.

Or

Launch Prime Data Migration Tool in the Getting Started page. Choose **Settings** > **Getting Started** > **Prime Data Migration Tool**, and then click **Launch Prime Data Migration Tool** to open the **Prime Infrastructure - Prime Data Migration Tool** page.

Before you launch the Prime Data Migration Tool, run the Cisco Prime Infrastructure Data Assessment & Readiness Tool (PDART) that analyzes Cisco Prime Infrastructure deployment and assesses whether Cisco Catalyst Center supports the current deployment. To know more information on how to install and run the Cisco PDART Update 05, See Use PDART - a Catalyst Center Readiness Tool.

To generate the PDART report for Catalyst Center version compatibility, do the following:

- From the **Select CatC version** drop-down list, choose the Catalyst Center version.
- Click **Execute PDART**.
- Click **Download Report** to download the PDART report in the pdf format.

Step 2 From the top-right corer, click **Job history**.

The **Prime Data Migration Job History** window appears.

Step 3 In the **Prime Data Migration Job History window**, do the following:

a) Click **Force Sync** to view the list of jobs that are force synced and the job details such as Cisco Catalyst Center IP, Start Time, End Time, Status and Info. You can click on the ***i*** icon next to the status column of the corresponding jobs to view the detailed information. You can also click on the hyperlinked completed or failed status to view the respective job summary in the **Job Summary** window.

b) Click **Dynamic Sync** to view the list of dynamically synced job details such as Cisco Catalyst Center IP, Start Time, End Time, Status, and Info. You can click on the i icon next to the status column of the corresponding jobs to view the detailed information.

c) You can search for the job history by choosing a category from the drop-down list such as Groups/Maps, Devices, ISE, CMX and Templates or by using the search box.

If you choose Devices or ISE or CMX categories, enter the IP address in the search box and click Search to retrieve the job details.

Step 4 From the top-right corner, click **Download Logs** to download the prime migration logs in the .ZIP format.

Step 5 Click **Add Cisco Catalyst Center** Server.

Step 6 Enter the following Cisco Catalyst Center server details:

a) Server IP Address or Hostname.

b) Username.

c) Password.

d) Confirm Password.

You can integrate only one Cisco Catalyst Center server at a time.

When an invalid IP (invalid TOFU certificate) is added in the 'IP Address' field , a pop up will be displayed with the error message 'Invalid Certificate' and "To delete the existing certificate click here". You can remove the invalid certificate directly from the TOFU certification user interface by clicking the click here hyperlink in the error message.

Step 7 Click the **Enable Auto-Backup** radio button to backup the migrated data automatically when you remove or update the Catalyst Center server.

Step 8 Click **Save**, to check server reachability.

Step 9 (Optional) Click **Multi Server Settings**, to archive, and restore the data that is migrated from Prime Infrastructure to Catalyst Center. It is recommended to use this option after Force Sync.

You can use the following options to archive the migrated data:

- **List of Cisco Catalyst Center Archive Available** - Displays the list of available archives.
- **Back-up Current Cisco Catalyst Center Pairing** - Backup the currently paired Cisco Catalyst Center server details in the migration tool.
- **Back-up Current & Load Cisco Catalyst Center Archive** - Current Cisco Catalyst Center server and its details are backed up and you are prompted to load any other available archive by entering the IP address.
- **Load Catalyst Center Archive Only**- Load the Cisco Catalyst Center backed up server and its details.
- **Delete Cisco Catalyst Center Archive** - Deletes the selected Catalyst Center archives.

Step 10 In the **Sync Settings** window:

a) You can check for the Supported or Available Limits of the Cisco Catalyst Center server for the **Site Groups/Site Maps** , **Devices**, and **Templates**. Supported or Available Limits of Cisco Catalyst Center varies based on the Cisco Catalyst Center server model.

The Supported/Available limits are specified in the following table:

Table 6: Supported/ Available limits for Catalyst Center

Catalyst Center Model	Site Groups/ Site Maps	Devices	Templates
DN2-HW-APL DN3-HW-APL	2500	2000	1000
DN2-HW-APL-L DN3-HW-APL-L	2500	4000	1000
DN2-HW-APL-XL DN3-HW-APL-XL	2500	8000	1000

Table 7: Supported/Available Limits for Catalyst Center on Esxi

Catalyst Center on Esxi	Site Groups/Site Maps	Devices	Templates
32vCPU/256G	2500	2000	1000

b) Check the **Enables automatic synchronization of data integrated with Cisco Catalyst Center** check box to automatically synchronize any updates to the set of migrated Groups, Devices and CMX from Cisco Prime Infrastructure to Cisco Catalyst Center.

c) Select the **Include newly added data during dynamic synchronization** check box to automatically migrate any new addition to the set of migrated Groups, Devices and CMX from Cisco Prime Infrastructure to Cisco Catalyst Center.

Note
Dynamic Synchronization does not support add, update or delete operations for the already migrated data and will not synchronize the data automatically for the following components:

- Maps
- CLI Templates
- ISE Server

Maps, CLI templates, and ISE server migration is achieved only by Force Sync.

- This check box is enabled only if you select the **Enables automatic synchronization of data integrated with Cisco Catalyst Center** check box.
- During force synchronization, if the **Enables automatic synchronization of data integrated with Cisco Catalyst Center** check box is enabled, any modifications that are made through force synchronization to the Location Group and Devices entities are dynamically synced in Cisco Catalyst Center.
- If the **Enables automatic synchronization of data integrated with Cisco Catalyst Center** check box is selected, CMX is dynamically assigned to Cisco Catalyst Center floor groups, when Cisco Prime Infrastructure imports maps to CMX.

d) If you select the **Enable CMX settings** check box, CMX will be pushed with floor groups. If you do not select the **Enable CMX settings** check box, CMX data will not be pushed to the Cisco Catalyst Center server.
e) If you select the **Enable ISE settings** check box, ISE server details will be pushed. If you do not select the **Enable ISE settings** check box, ISE data will not be pushed to the Cisco Catalyst Center server.
f) Select the **Migrate User Defined CLI Templates** check box to migrate the user-defined CLI and/or Composite Templates to Cisco Catalyst Center.
g) Choose the **Migrate CLI System Templates** check box to migrate the CLI System Templates to Cisco Catalyst Center.

Step 11 Click **Next** to go to the **Select Groups** page.

Step 12 In the **Select Groups** window:

Expand the **Usage Details** section to view a summary of the site and device count details such as **Recommended**, **Selected for Migration**, and **Available**.

a) Check the **Sync only new selection** checkbox to migrate only the newly selected groups for migration. If you click Force sync, only newly selected groups will be migrated to Catalyst Center.
b) Uncheck the **Sync only new selection** checkbox to migrate only the newly selected groups and groups which is already migrated.
c) If you want to delete only the mapping from Prime data migration to Cisco Catalyst Center and retain the instances of migrated sites in the Catalyst Center for the current force sync, uncheck the **Delete sites in Cisco Catalyst Center for the current Force Sync** check box.
d) Check the **Delete sites in Cisco Catalyst Center for the current Force Sync** check box to delete the sites from Cisco Catalyst Center and remove the mapping from prime data migration to Cisco Catalyst Center for the current force sync.

   Uncheck the **Delete sites in Cisco Catalyst Center for the current Force Sync** check box to remove the mapping from Prime Data Migration Tool to Cisco Catalyst Center for the current force sync

e) If you want to move an entire group hierarchy to Cisco Catalyst Center, check the **Replicate Parent Hierarchy** check box and select the location groups in the **Prime Infrastructure Location Groups** pane.

   By default, when you select Site Groups, the buildings, floors, and associated maps are also selected.

   Click **Select Catalyst Center Parent** below the **Prime Infrastructure Location Groups** pane to open the **Cisco Catalyst Center Site Groups** window.

   Marked for Deletion label appears when you unselect an already migrated group with Delete sites in Cisco Catalyst Center for the current Force Sync check box, checked.

   Marked for Unmapping label appears when you unselect an already migrated group with Delete sites in Cisco Catalyst Center for the current Force Sync check box, unchecked.

   Select **Global** from the **Cisco Catalyst Center Site Groups** pane under which you want to move the PI groups and click **OK**. The selected groups will be added in the **Group Movement Log** pane with the label as **Marked for Migration**.

   Update Civic Location window pops up to enter the civic location details for the selected building, if no lcoation details are available. You can choose the **Address** or provide **Latitude** and **Longitude** values and click **Save** to update the civic details for the building which you selected.

f) If you want to move only a building or a floor to Cisco Catalyst Center under a different campus or area, click **Select Catalyst Center Parent** below the **Prime Infrastructure Location Groups** pane to open the **Cisco Catalyst Center Site Groups** window.

Select a campus or an area from **Cisco Catalyst Center Site Groups** under which you need to move the building and select a building from Cisco Catalyst Center Site Groups under which you need to move the floor and click **OK**. The selected groups will be added in the **Group Movement Log** pane with the label as **Marked for Migration**.

If you click the **Close** or **Cancel** buttons in the **Cisco Catalyst Center Site Groups** window, the window closes without selecting any groups for migration and the **Group Movement Log** pane is not updated with the selected groups.

After you move the groups from Prime Infrastructure to Cisco Catalyst Center, **Marked for Migration** label appears on the moved groups.

Already migrated groups from Prime Infrastructure to Cisco Catalyst Center appear with the label as **Migrated** in the **Prime Infrastructure Location Groups** pane as well as the **Group Movement Log** pane.

The count of selected groups for migration appears as **Selected for Migration** under Sites. The count of selected devices for migration appears as **Selected for Migration** under Devices in **Usage details**.

Available groups count in Cisco Catalyst Center appears in the **Available** section under Sites and available devices count in Cisco Catalyst Center appears in the **Available** section under Devices in **Usage details**.

The **Prime Infrastructure Location Groups** pane lists all the Cisco Prime Infrastructure groups irrespective of any virtual domain.

Note

- Cisco Prime Infrastructure does not migrate devices assigned in a "Campus" to the Cisco Catalyst Center, when the migration tool is used. As a workaround, you can assign your devices to a "Building" or "Floor" type location group before using the migration tool.
- Devices assigned in the Location groups with 'Default' Group type are not migrated to Cisco Catalyst Center.

Catalyst Center Site Builder :To create sites directly in Cisco Catalyst Center so that you can move your sites from Prime Infrastructure to Cisco Catalyst Center, click **Catalyst Center Site Builder**.

In the **Catalyst Center Site Builder** window, if you select the **Area** radio button, enter the following information:

- **Site Name**: Site name that you can create in Cisco Catalyst Center.
- **Parent Site**: Cisco Catalyst Center parent under which you can create the site.

In the **Catalyst Center Site Builder** window, if you select the **Building** radio button to create a building in the Cisco Catalyst Center Area, enter the following information:

- **Site Name**: Building name that you can create in Cisco Catalyst Center.
- **Parent Site**: Cisco Catalyst Center parent under which you can create the building.
- **Civic Location**: Enter the civic location details under which you want to create the building.
- **GPS (Latitude/Longitude)**: These co-ordinates are auto-populated.

Click **Add** to create a site or building in Cisco Catalyst Center and clicl **Next**.

Step 13 In the **ISE & CMX Credentials** window:

a) Click the **ISE** tab to view the ISE server details that are present in Prime Infrastructure such as:

- Server Status
- Server IP

- Port
- Server Name
- Username
- Shared Secret: You must ensure that this shared secret field is not empty.
- Timeout: This value must not exceed 20.
- Retries

If no ISE server is present in Prime Infrastructure, a **No data available** message appears.

b) Click the **CMX** tab to can view the list of associated CMX servers for selected groups with the following details:

- Credential Status
- Server IP address
- Device Name
- Username
- Password
- SSH Username
- SSH Password

You must update the **SSH Username** and **SSH Password**, if it is not available for the respective CMX.

If the associated CMX is not found, then click **Next**

Note
When the Cisco Prime Infrastructure – Cisco Catalyst Center migration tool is active and auto sync is enabled, then CMX will be dynamically pushed to Cisco Catalyst Center floor groups. Cisco Catalyst Center will there by track the location data for assigned groups.

Step 14 If you check the **Migrate User Defined CLI Templates** check box or **Migrate CLI System Templates** check box in the **Sync Settings** page, then a new page **Select CLI Templates** appears after the CMX page.

Step 15 In the **Select CLI Templates** window:

a) Non-Migrated templates list all the available CLI templates, Composite User Defined templates, and CLI System templates available in Prime Infrastructure. Choose the templates that you want to migrate to Cisco Catalyst Center.

b) Migrated templates list all the migrated templates available in Cisco Catalyst Center. You can either update or delete these templates.

Note
By default all the rows are selected. Selected templates from the list are updated and the deselected templates are deleted from Cisco Catalyst Center.

Step 16 Click **Next**.

Step 17 In the **Summary** window:

a) You can view the overall summary of selected location groups, devices, associated maps, user-defined templates, CLI System templates, CMX servers, and ISE servers before migrating to the Cisco Catalyst Center.

b) Click the **CLI templates** tab to view the selected CLI templates listed here. Based on the device selection in the groups you can Add, Update, or Delete the CLI templates, Composite user defined templates, and CLI System templates in Cisco Catalyst Center.
c) In the **Sync Settings** tab, you can view the summary of the sync status.

Step 18 Click **Force Sync** to push data to the Cisco Catalyst Center server after the first migration.

A confirmation message appears **Catalyst Center data will be overwritten by PI data by the Force Sync**. Click **Yes** to proceed or **No** to stop Force Sync.

In the **Prime Infrastructure to Catalyst Center Data Migration Status** page, click the link **Click here to access Change Audit Dashboard**, to view the migration status in the Change Audit Dashboard.

Step 19 From the top-right corner, click **Download Migration Summary**.

The downloaded migration report shows the migrated info comparing Prime Infrastructure sites with Catalyst Center for the last 5 instances of last 5 servers migrated. You can infer the migration status of Groups, Devices, and APs migrated from Prime Infrastructure to Catalyst Center.

What to do next

1. If you want to revert the site hierarchy in Cisco Catalyst Center, uncheck the migrated groups in the Prime Data Migration tool and click **Force Sync**. This step deletes the migrated groups in Cisco Catalyst Center.

   If you want to revert the device assignment (devices will be unassigned from Cisco Catalyst Center sites and assigned to migrated groups if the same devices are present both in Cisco Prime Infrastructure groups and Cisco Catalyst Center sites), perform the following steps:

   - Uncheck the migrated groups in the Prime Data Migration tool and click **Force Sync**. This step deletes the migrated groups and devices in Cisco Catalyst Center.
   - Add and assign or provision the devices in Cisco Catalyst Center in the required sites.

   The pre-migration site hierarchy appears in Cisco Catalyst Center.

   To migrate your Cisco Prime Infrastructure data again using the Prime Data Migration Tool , unassign the devices in Cisco Prime Infrastructure for the required groups and migrate the data.
2. Multi-Catalyst Center is supported from Prime Data Migration Tool Update 02.0. This feature allows you to migrate to multiple Catalyst Center clusters (one Catalyst Center server at a time) and retain the migration data for each Catalyst Center server.
3. Refer the important notes about Cisco Prime Infrastructure - Cisco Catalyst Center migration, see Important Notes, on page 39 .

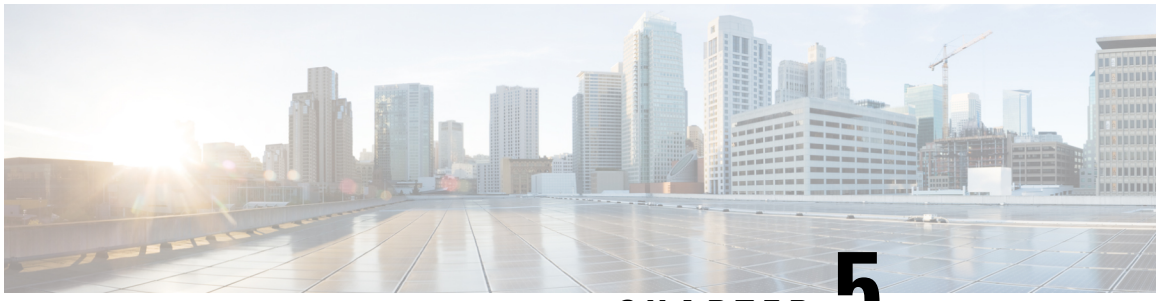
Important Notes

This section contains important notes about Cisco Prime Infrastructure - Cisco Catalyst Center migration:

- You can integrate only one Cisco Catalyst Center server at a time.
- The Prime Data Migration tool supports port number TCP 8078. For more information, see Ports Used by Prime Infrastructure and Assurance in the *Cisco Prime Infrastructure 3.10 Quick Start Guide*.

- When the integration or initialization phase remains in the loading state for more than 5 minutes, check for any firewall restrictions, and ensure that no firewall restrictions are blocking or redirecting communication.
- CMX must be installed with a self or CA signed certificate to migrate from Prime Data Migration Tool to Cisco Catalyst Center, 2.3.7.5 and above.
- You can migrate obstacles that are created within an image to the Cisco Catalyst Center.
- Maps Migration fails when you migrate other groups along with the outdoor area to a non-global area.
- Outdoor area migration is not supported in Prime Data Migration tool.
- You can migrate ISE Server and CLI Templates along with the group migration.
- Groups with empty/null civic location values will be ignored for migration.
- When migrating ISE from Prime Infrastructure to Catalyst Center, ISE gets added to Catalyst Center in the failed state. To avoid this make sure to do the following:
  - Activate PXGrid on ISE
  - Enable ERS on ISE
  - ISE's CLI and GUI password must be the same
- Cisco Catalyst 9800 Series Wireless Controllers can be managed in multiple Cisco Prime Infrastructure servers or in Cisco Catalyst Center and Prime Infrastructure server as long as the subscription limit is available. To get managed, a single Prime Infrastructure server consumes or requires 30 config telemetry subscriptions, and a single Catalyst Center requires 70 or more telemetry subscriptions. IOS XE - 17.6 and later versions support 128 telemetry subscriptions.
- To connect with cisco.com, with respect to SWIM and Software Update, you must install PI_3_9_1_Security_Update_01 UBF along with PI 3.9.x Prime Data Migration Tool Update 03 UBF or PI_3_8_1_Security_Update_01 UBF along with PI 3.8.x Prime Data Migration Tool Update 03 UBF.
- You use a single session of the migration at a time for the same Cisco Prime Infrastructure server and Cisco Catalyst Center server pair.
- Once the CMX is migrated to Cisco Catalyst Center, it will not be managed by Cisco Prime Infrastructure.
- Any legacy devices which are not supported by Cisco Catalyst Center chosen for migration will be added to Cisco Catalyst Center inventory under Device Type column -“Unsupported Cisco Device”.
- Devices managed with SNMP v2 and v3 can be migrated to Cisco Catalyst Center.
- Any devices managed only with SNMP v1 or SNMP v3 with DES protocol of AuthPriv credentials in Cisco Prime Infrastructure cannot be migrated to Cisco Catalyst Center.
- Also, bulk migration fails if any one of the devices managed by SNMP v1 or v3 with DES protocol of AuthPriv credentials.
- Only the basic information of the groups will be migrated, but not the rules and profiles assigned to group.
- After integration, while upgrading Cisco Catalyst Center to an unsupported version, error will be thrown as “Unsupported Version” and migration will stop.

- Access Points positioned in the maps in Cisco Prime Infrastructure will migrate to Cisco Catalyst Center, only if we manage its WLC devices with CLI Credentials.
- For Composite template Migration - The associated template should not be System template. If any composite template with system template will not get migrated.
- During composite template migration all the associated template in composite template should be having the same device type. Otherwise migration will fail.
- Specific composite templates migration is not recommended till Cisco Catalyst Center 1.3.3.8 and 2.1.1.3. However it works in later Catalyst Center versions.
- Catalyst Center Version 2.2.1.0 specific update.
- Civic location is mandatory for Location Groups / Site groups migration especially from Cisco Catalyst Center 2.2.1.0 version.



CHAPTER 5

Migrate Cisco Prime Infrastructure Data to Cisco Catalyst Center Using Prime Data Migration Tool Update 06

This chapter provides information on migrating data and important points related to migrating Cisco Prime Infrastructure to Cisco Catalyst Center using the Prime Data Migration Tool Update 06.

- Prerequisites for Using Prime Data Migration Tool Update 06, on page 43
- Migrating Data from Cisco Prime Infrastructure to Cisco Catalyst Center using Prime Data Migration Tool Update 06, on page 45
- Important Notes, on page 51

Prerequisites for Using Prime Data Migration Tool Update 06

This section lists the prerequisites before using the Prime Data Migration Tool Update 06

- Ensure that you run the Cisco Catalyst Center AURA command line tool. The AURA tool performs a variety of health, scale and upgrade readiness checks for the Cisco Catalyst Center and the rest of the Fabric network. AURA ensures that Cisco Catalyst Center and its component services are all healthy and available before you start a migration. For more information on using Cisco Catalyst Center AURA tool, see Enhanced Visibility into the Cisco Catalyst Center using AURA.
- Ensure that you run the Cisco PDART (Cisco Prime Infrastructure Cisco Catalyst Center Assessment & Readiness Tool) analyzes a Cisco Prime Infrastructure deployment and assesses whether Cisco Catalyst Center supports the current deployment. For more information, see Cisco PDART - A Cisco Catalyst Center Readiness tool for the Cisco Prime Infrastructure.

Prerequisites for Using PI 3.10.5 Prime Data Migration Tool Update 06

Ensure that:

- You install Cisco Prime Infrastructure 3.10.5+3.10.5 System Patch.
- You have Root or Super Users access privileges of Cisco Prime Infrastructure.
- You have access credentials of Cisco Catalyst Center.

- Refer the Cisco Prime Infrastructure and Cisco Catalyst Center Compatibility Matrix, on page 1.

Prerequisites for Using PI 3.9.x Prime Data Migration Tool Update 06

Ensure that:

- You install Cisco Prime Infrastructure 3.9.1 + PI 3.9.1 Update 02 or PI 3.9 (Upgrade) + PI 3.9 Oracle Patch + PI 3.9.1 + PI 3.9.1 Update 02 or PI 3.9.x Prime Data Migration Tool Update 05 or PI 3.9.x Prime Data Migration Tool Update 05.01 or PI 3.9.x Prime Data Migration Tool Update 05.02.
- If you need support for Catalyst 9800 16.12.x version, you will need to install PI_3_9_Oct_Oracle_patch-1.0.8.ubf patch before you install PI 3.9.1. For instructions to install the Oracle Patch, see *Installing Cisco Prime Infrastructure System Patch 3.9* section in the Cisco Prime Infrastructure 3.9 Administrator Guide.
- You have Root or Super Users access privileges of Cisco Prime Infrastructure.
- You have access credentials of Cisco Catalyst Center.
- Refer the Cisco Prime Infrastructure and Cisco Catalyst Center Compatibility Matrix, on page 1.

Prerequisites for Using PI 3.8.x Prime Data Migration Tool Update 06

Ensure that:

- You install Cisco Prime Infrastructure 3.8.1 Update 03 or PI 3.8.x Prime Data Migration Tool Update 05 or PI 3.8.x Prime Data Migration Tool Update 05.01 or PI 3.8.x Prime Data Migration Tool Update 05.02.
- You have Root or Super Users access privileges of Cisco Prime Infrastructure.
- You have access credentials of Cisco Catalyst Center.
- Refer the Cisco Prime Infrastructure and Cisco Catalyst Center Compatibility Matrix, on page 1.

Prerequisites for Using PI 3.7.x Prime Data Migration Tool Update 06

Ensure that:

- You install Cisco Prime Infrastructure 3.7.1 update 06 or PI 3.7.x Prime Data Migration Tool Update 05 or PI 3.7.x Prime Data Migration Tool Update 05.01 or PI 3.7.x Prime Data Migration Tool Update 05.02.
- You have Root or Super Users access privileges of Cisco Prime Infrastructure.
- You have access credentials of Cisco Catalyst Center.
- Refer the Cisco Prime Infrastructure and Cisco Catalyst Center Compatibility Matrix, on page 1.

Migrating Data from Cisco Prime Infrastructure to Cisco Catalyst Center using Prime Data Migration Tool Update 06

This section helps you to migrate your Cisco Prime Infrastructure data from:

- PI 3.10.5+3.10.5 System Patch to Cisco Catalyst Center using PI 3.10.5 Prime Data Migration Tool Update 06
- PI 3.9.1 Update 02, PI 3.9.x Prime Data Migration Tool Update 05, PI 3.9.x Prime Data Migration Tool Update 05.01, PI 3.9.x Prime Data Migration Tool Update 05.02 to Cisco Catalyst Center using PI 3.9.x Prime Data Migration Tool Update 06.
- PI 3.8.1 update 03, PI 3.8.x Prime Data Migration Tool Update 05, PI 3.8.x Prime Data Migration Tool Update 05.01, PI 3.8.x Prime Data Migration Tool Update 05.02 to Cisco Catalyst Center using PI 3.8.x Prime Data Migration Tool Update 06.
- PI 3.7.1 update 06, PI 3.7.x Prime Data Migration Tool Update 05, PI 3.7.x Prime Data Migration Tool Update 05.01, PI 3.7.x Prime Data Migration Tool Update 05.02 to Cisco Catalyst Center using PI 3.7.x Prime Data Migration Tool Update 06.

Follow this procedure to access the Cisco Prime Infrastructure to Cisco Catalyst Center migration by logging in to Cisco Prime Infrastructure:

Procedure

Step 1 Choose **Administration** > **Settings** > **System Settings** > **General** > **Prime Data Migration Tool**, and then click **Launch Prime Data Migration Tool** to open **Prime Infrastructure - Prime Data Migration Tool** page.

For 3.9.1, and 3.10.5 you can either:

Click **Prime Data Migration Tool** in the **Mega Menu** page.

Or

Launch Prime Data Migration Tool in the Getting Started page. Choose **Settings** > **Getting Started** > **Prime Data Migration Tool**, and then click **Launch Prime Data Migration Tool** to open the **Prime Infrastructure - Prime Data Migration Tool** page.

Before you launch the Prime Data Migration Tool, click **Execute PDART** to run the pre-assessment to analyze a Cisco Prime Infrastructure deployment and assesses whether Cisco Catalyst Center supports the current deployment. To know more information on how to install and run the Cisco PDART, See Install and Run PDART.

Click **Download Report** to download the PDART report in the pdf format.

Step 2 Click **Job history**, in the top-right corner of the Prime Data Migration Tool, the **Prime Data Migration Job History** window appears.

Step 3 In the **Prime Data Migration Job History window**, do the following:

a) Click **Force Sync** to view the list of jobs that are force synced and the job details such as Cisco Catalyst Center IP, Start Time, End Time, Status and Info. You can click on the ***i*** icon next to the status column of the corresponding jobs to view the detailed information. You can also click on the hyperlinked completed or failed status to view the respective job summary in the **Job Summary** window.

b) Click **Dynamic Sync** to view the list of dynamically synced job details such as Cisco Catalyst Center IP, Start Time, End Time, Status, and Info. You can click on the i icon next to the status column of the corresponding jobs to view the detailed information.

c) You can search for the job history by choosing a category from the drop-down list such as Groups/Maps, Devices, ISE, CMX and Templates or by using the search box.

If you choose Devices or ISE or CMX categories, enter the IP address in the search box and click Search to retrieve the job details.

Step 4 Click **Download Logs** in the top-right corner of the Prime Data Migration Tool, to download the prime migration logs in the .ZIP format.

Step 5 Click **Add Cisco Catalyst Center** Server.

Step 6 Enter the following Cisco Catalyst Center server details:

a) Server IP Address or Hostname.

b) Username.

c) Password.

d) Confirm Password.

You can integrate only one Cisco Catalyst Center server at a time.

When an invalid IP (invalid TOFU certificate) is added in the 'IP Address' field , a pop up will be displayed with the error message 'Invalid Certificate' and "To delete the existing certificate click here". You can remove the invalid certificate directly from the TOFU certification user interface by clicking the click here hyperlink in the error message.

Step 7 Click **Save**, to check server reachability.

Step 8 (Optional) Click **Multi Server Settings**, to archive, and restore the data that is migrated from Prime Infrastructure to Catalyst Center. It is recommended to use this option after Force Sync.

You can use the following options to archive the migrated data:

- **List of Cisco Catalyst Center Archive Available** - Displays the list of available archives.
- **Back-up Current Cisco Catalyst Center Pairing** - Backup the currently paired Cisco Catalyst Center server details in the migration tool.
- **Back-up Current & Load Cisco Catalyst Center Archive** - Current Cisco Catalyst Center server and its details are backed up and you are prompted to load any other available archive by entering the IP address.
- **Load Catalyst Center Archive Only**- Load the Cisco Catalyst Center backed up server and its details.
- **Delete Cisco Catalyst Center Archive** - Deletes the selected Catalyst Center archives.

Step 9 In the **Sync Settings** window:

a) You can check for the Supported or Available Limits of the Cisco Catalyst Center server for the **Site Groups/Site Maps** , **Devices**, and **Templates**. Supported or Available Limits of Cisco Catalyst Center varies based on the Cisco Catalyst Center server model.

The Supported/Available limits are specified in the following table:

Table 8: Supported/ Available limits for Catalyst Center

Catalyst Center Model	Site Groups/ Site Maps	Devices	Templates
DN2-HW-APL DN3-HW-APL	2500	2000	1000
DN2-HW-APL-L DN3-HW-APL-L	2500	4000	1000
DN2-HW-APL-XL DN3-HW-APL-XL	2500	8000	1000

Table 9: Supported/Available Limits for Catalyst Center on Esxi

Catalyst Center on Esxi	Site Groups/Site Maps	Devices	Templates
32vCPU/256G	2500	2000	1000

b) Check the **Enables automatic synchronization of data integrated with Cisco Catalyst Center** check box to automatically synchronize any updates to the set of migrated Groups, Devices and CMX from Cisco Prime Infrastructure to Cisco Catalyst Center.

c) Select the **Include newly added data during dynamic synchronization** check box to automatically migrate any new addition to the set of migrated Groups, Devices and CMX from Cisco Prime Infrastructure to Cisco Catalyst Center.

Note
Dynamic Synchronization does not support add, update or delete operations for the already migrated data and will not synchronize the data automatically for the following components:

- Maps
- CLI Templates
- ISE Server

Maps, CLI templates, and ISE server migration is achieved only by Force Sync.

- This check box is enabled only if you select the **Enables automatic synchronization of data integrated with Cisco Catalyst Center** check box.
- During force synchronization, if the **Enables automatic synchronization of data integrated with Cisco Catalyst Center** check box is enabled, any modifications that are made through force synchronization to the Location Group and Devices entities are dynamically synced in Cisco Catalyst Center.
- If the **Enables automatic synchronization of data integrated with Cisco Catalyst Center** check box is selected, CMX is dynamically assigned to Cisco Catalyst Center floor groups, when Cisco Prime Infrastructure imports maps to CMX.

d) If you select the **Enable CMX settings** check box, CMX will be pushed with floor groups. If you do not select the **Enable CMX settings** check box, CMX data will not be pushed to the Cisco Catalyst Center server.

e) If you select the **Enable ISE settings** check box, ISE server details will be pushed. If you do not select the **Enable ISE settings** check box, ISE data will not be pushed to the Cisco Catalyst Center server.

f) Select the **Migrate User Defined CLI Templates** check box to migrate the user-defined CLI and/or Composite Templates to Cisco Catalyst Center.

g) Choose the **Migrate CLI System Templates** check box to migrate the CLI System Templates to Cisco Catalyst Center.

Step 10 Click **Next** to go to the **Select Groups** page.

Step 11 In the **Select Groups** window:

Expand the **Usage Details** section to view a summary of the site and device count details such as **Recommended**, **Selected for Migration**, and **Available**.

a) Check the **Sync only new selection** checkbox to migrate only the newly selected groups for migration. If you click Force sync, only newly selected groups will be migrated to Catalyst Center.

b) Uncheck the **Sync only new selection** checkbox to migrate only the newly selected groups and groups which is already migrated.

c) If you want to delete only the mapping from Prime data migration to Cisco Catalyst Center and retain the instances of migrated sites in the Catalyst Center for the current force sync, uncheck the **Delete sites in Cisco Catalyst Center for the current Force Sync** check box.

d) Check the **Delete sites in Cisco Catalyst Center for the current Force Sync** check box to delete the sites from Cisco Catalyst Center and remove the mapping from prime data migration to Cisco Catalyst Center for the current force sync.

Uncheck the **Delete sites in Cisco Catalyst Center for the current Force Sync** check box to remove the mapping from Prime Data Migration Tool to Cisco Catalyst Center for the current force sync

e) If you want to move an entire group hierarchy to Cisco Catalyst Center, check the **Replicate Parent Hierarchy** check box and select the location groups in the **Prime Infrastructure Location Groups** pane.

By default, when you select Site Groups, the buildings, floors, and associated maps are also selected.

Click **Select Catalyst Center Parent** below the **Prime Infrastructure Location Groups** pane to open the **Cisco Catalyst Center Site Groups** window.

Marked for Deletion label appears when you unselect an already migrated group with Delete sites in Cisco Catalyst Center for the current Force Sync check box, checked.

Marked for Unmapping label appears when you unselect an already migrated group with Delete sites in Cisco Catalyst Center for the current Force Sync check box, unchecked.

Select **Global** from the **Cisco Catalyst Center Site Groups** pane under which you want to move the PI groups and click **OK**. The selected groups will be added in the **Group Movement Log** pane with the label as **Marked for Migration**.

Update Civic Location window pops up to enter the civic location details for the selected building, if no lcoation details are available. You can choose the **Address** or provide **Latitude** and **Longitude** values and click **Save** to update the civic details for the building which you selected.

f) If you want to move only a building or a floor to Cisco Catalyst Center under a different campus or area, click **Select Catalyst Center Parent** below the **Prime Infrastructure Location Groups** pane to open the **Cisco Catalyst Center Site Groups** window.

Select a campus or an area from **Cisco Catalyst Center Site Groups** under which you need to move the building and select a building from Cisco Catalyst Center Site Groups under which you need to move the floor and click **OK**. The selected groups will be added in the **Group Movement Log** pane with the label as **Marked for Migration**.

If you click the **Close** or **Cancel** buttons in the **Cisco Catalyst Center Site Groups** window, the window closes without selecting any groups for migration and the **Group Movement Log** pane is not updated with the selected groups.

After you move the groups from Prime Infrastructure to Cisco Catalyst Center, **Marked for Migration** label appears on the moved groups.

Already migrated groups from Prime Infrastructure to Cisco Catalyst Center appear with the label as **Migrated** in the **Prime Infrastructure Location Groups** pane as well as the **Group Movement Log** pane.

The count of selected groups for migration appears as **Selected for Migration** under Sites. The count of selected devices for migration appears as **Selected for Migration** under Devices in **Usage details**.

Available groups count in Cisco Catalyst Center appears in the **Available** section under Sites and available devices count in Cisco Catalyst Center appears in the **Available** section under Devices in **Usage details**.

The **Prime Infrastructure Location Groups** pane lists all the Cisco Prime Infrastructure groups irrespective of any virtual domain.

Note

- Cisco Prime Infrastructure does not migrate devices assigned in a "Campus" to the Cisco Catalyst Center, when the migration tool is used. As a workaround, you can assign your devices to a "Building" or "Floor" type location group before using the migration tool.
- Devices assigned in the Location groups with 'Default' Group type are not migrated to Cisco Catalyst Center.

Catalyst Center Site Builder :To create sites directly in Cisco Catalyst Center so that you can move your sites from Prime Infrastructure to Cisco Catalyst Center, click **Catalyst Center Site Builder**.

In the **Catalyst Center Site Builder** window, if you select the **Area** radio button, enter the following information:

- **Site Name**: Site name that you can create in Cisco Catalyst Center.
- **Parent Site**: Cisco Catalyst Center parent under which you can create the site.

In the **Catalyst Center Site Builder** window, if you select the **Building** radio button to create a building in the Cisco Catalyst Center Area, enter the following information:

- **Site Name**: Building name that you can create in Cisco Catalyst Center.
- **Parent Site**: Cisco Catalyst Center parent under which you can create the building.
- **Civic Location**: Enter the civic location details under which you want to create the building.
- **GPS (Latitude/Longitude)**: These co-ordinates are auto-populated.

Click **Add** to create a site or building in Cisco Catalyst Center and clicl **Next**.

Step 12 In the **ISE & CMX Credentials** window:

a) Click the **ISE** tab to view the ISE server details that are present in Prime Infrastructure such as:

- Server Status
- Server IP
- Port
- Server Name
- Username

- Shared Secret: You must ensure that this shared secret field is not empty.
- Timeout: This value must not exceed 20.
- Retries

If no ISE server is present in Prime Infrastructure, a **No data available** message appears.

b) Click the **CMX** tab to can view the list of associated CMX servers for selected groups with the following details:

- Credential Status
- Server IP address
- Device Name
- Username
- Password
- SSH Username
- SSH Password

You must update the **SSH Username** and **SSH Password**, if it is not available for the respective CMX.

If the associated CMX is not found, then click **Next**

Note
When the Cisco Prime Infrastructure – Cisco Catalyst Center migration tool is active and auto sync is enabled, then CMX will be dynamically pushed to Cisco Catalyst Center floor groups. Cisco Catalyst Center will there by track the location data for assigned groups.

Step 13 If you check the **Migrate User Defined CLI Templates** check box or **Migrate CLI System Templates** check box in the **Sync Settings** page, then a new page **Select CLI Templates** appears after the CMX page.

Step 14 In the **Select CLI Templates** window:

a) Non-Migrated templates list all the available CLI templates, Composite User Defined templates, and CLI System templates available in Prime Infrastructure. Choose the templates that you want to migrate to Cisco Catalyst Center.

b) Migrated templates list all the migrated templates available in Cisco Catalyst Center. You can either update or delete these templates.

Note
By default all the rows are selected. Selected templates from the list are updated and the deselected templates are deleted from Cisco Catalyst Center.

Step 15 Click **Next**.

Step 16 In the **Summary** window:

a) You can view the overall summary of selected location groups, devices, associated maps, user-defined templates, CLI System templates, CMX servers, and ISE servers before migrating to the Cisco Catalyst Center.

b) Click the **CLI templates** tab to view the selected CLI templates listed here. Based on the device selection in the groups you can Add, Update, or Delete the CLI templates, Composite user defined templates, and CLI System templates in Cisco Catalyst Center.

c) In the **Sync Settings** tab, you can view the summary of the sync status.

Step 17 Click **Force Sync** to push data to the Cisco Catalyst Center server after the first migration.

A confirmation message appears **Catalyst Center data will be overwritten by PI data by the Force Sync**. Click **Yes** to proceed or **No** to stop Force Sync.

A success message appears after the successful completion of the Force Sync operation.

What to do next

1. If you want to revert the site hierarchy in Cisco Catalyst Center, uncheck the migrated groups in the Prime Data Migration tool and click **Force Sync**. This step deletes the migrated groups in Cisco Catalyst Center.

   If you want to revert the device assignment (devices will be unassigned from Cisco Catalyst Center sites and assigned to migrated groups if the same devices are present both in Cisco Prime Infrastructure groups and Cisco Catalyst Center sites), perform the following steps:

   - Uncheck the migrated groups in the Prime Data Migration tool and click **Force Sync**. This step deletes the migrated groups and devices in Cisco Catalyst Center.
   - Add and assign or provision the devices in Cisco Catalyst Center in the required sites.

   The pre-migration site hierarchy appears in Cisco Catalyst Center.

   To migrate your Cisco Prime Infrastructure data again using the Prime Data Migration Tool , unassign the devices in Cisco Prime Infrastructure for the required groups and migrate the data.

2. Multi-Catalyst Center is supported from Prime Data Migration Tool Update 02.0. This feature allows you to migrate to multiple Catalyst Center clusters (one Catalyst Center server at a time) and retain the migration data for each Catalyst Center server.

3. Refer the important notes about Cisco Prime Infrastructure - Cisco Catalyst Center migration, see Important Notes, on page 82.

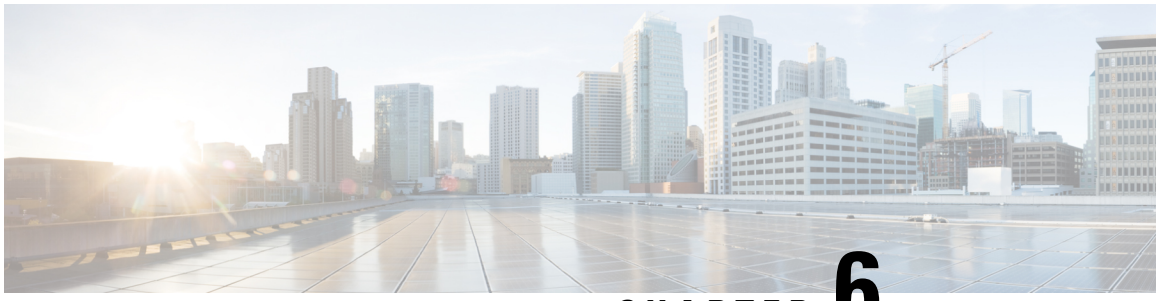
Important Notes

This section contains important notes about Cisco Prime Infrastructure - Cisco Catalyst Center migration:

- You can integrate only one Cisco Catalyst Center server at a time.
- The Prime Data Migration tool supports port number TCP 8078. For more information, see Ports Used by Prime Infrastructure and Assurance in the *Cisco Prime Infrastructure 3.10 Quick Start Guide*.
- When the integration or initialization phase remains in the loading state for more than 5 minutes, check for any firewall restrictions, and ensure that no firewall restrictions are blocking or redirecting communication.
- CMX must be installed with a self or CA signed certificate to migrate from Prime Data Migration Tool to Cisco Catalyst Center, 2.3.7.5 and above.
- You can migrate obstacles that are created within an image to the Cisco Catalyst Center.
- Maps Migration fails when you migrate other groups along with the outdoor area to a non-global area.
- Outdoor area migration is not supported in Prime Data Migration tool.
- You can migrate ISE Server and CLI Templates along with the group migration.

- Groups with empty/null civic location values will be ignored for migration.
- When migrating ISE from Prime Infrastructure to Catalyst Center, ISE gets added to Catalyst Center in the failed state. To avoid this make sure to do the following:
  - Activate PXGrid on ISE
  - Enable ERS on ISE
  - ISE's CLI and GUI password must be the same
- Cisco Catalyst 9800 Series Wireless Controllers can be managed in multiple Cisco Prime Infrastructure servers or in Cisco Catalyst Center and Prime Infrastructure server as long as the subscription limit is available. To get managed, a single Prime Infrastructure server consumes or requires 30 config telemetry subscriptions, and a single Catalyst Center requires 70 or more telemetry subscriptions. IOS XE - 17.6 and later versions support 128 telemetry subscriptions.
- To connect with cisco.com, with respect to SWIM and Software Update, you must install PI_3_9_1_Security_Update_01 UBF along with PI 3.9.x Prime Data Migration Tool Update 03 UBF or PI_3_8_1_Security_Update_01 UBF along with PI 3.8.x Prime Data Migration Tool Update 03 UBF.
- You use a single session of the migration at a time for the same Cisco Prime Infrastructure server and Cisco Catalyst Center server pair.
- Once the CMX is migrated to Cisco Catalyst Center, it will not be managed by Cisco Prime Infrastructure.
- Any legacy devices which are not supported by Cisco Catalyst Center chosen for migration will be added to Cisco Catalyst Center inventory under Device Type column -“Unsupported Cisco Device”.
- Devices managed with SNMP v2 and v3 can be migrated to Cisco Catalyst Center.
- Any devices managed only with SNMP v1 or SNMP v3 with DES protocol of AuthPriv credentials in Cisco Prime Infrastructure cannot be migrated to Cisco Catalyst Center.
- Also, bulk migration fails if any one of the devices managed by SNMP v1 or v3 with DES protocol of AuthPriv credentials.
- Only the basic information of the groups will be migrated, but not the rules and profiles assigned to group.
- After integration, while upgrading Cisco Catalyst Center to an unsupported version, error will be thrown as “Unsupported Version” and migration will stop.
- Access Points positioned in the maps in Cisco Prime Infrastructure will migrate to Cisco Catalyst Center, only if we manage its WLC devices with CLI Credentials.
- For Composite template Migration - The associated template should not be System template. If any composite template with system template will not get migrated.
- During composite template migration all the associated template in composite template should be having the same device type. Otherwise migration will fail.
- Specific composite templates migration is not recommended till Cisco Catalyst Center 1.3.3.8 and 2.1.1.3. However it works in later Catalyst Center versions.
- Catalyst Center Version 2.2.1.0 specific update.

- Civic location is mandatory for Location Groups / Site groups migration especially from Cisco Catalyst Center 2.2.1.0 version.



CHAPTER 6

Migrate Cisco Prime Infrastructure Data to Cisco Catalyst Center Using Prime Data Migration Tool Update 05.02

This chapter provides information on migrating data and important points related to migrating Cisco Prime Infrastructure to Cisco Catalyst Center using the Prime Data Migration Tool Update 05.02.

- Prerequisites for Using Prime Data Migration Tool Update 05.02, on page 55
- Migrating Data from Cisco Prime Infrastructure to Cisco Catalyst Center using Prime Data Migration Tool Update 05.02, on page 57
- Important Notes, on page 63

Prerequisites for Using Prime Data Migration Tool Update 05.02

This section lists the prerequisites before using the Prime Data Migration Tool Update 05.02

- Ensure that you run the Cisco Catalyst Center AURA command line tool. The AURA tool performs a variety of health, scale and upgrade readiness checks for the Cisco Catalyst Center and the rest of the Fabric network. AURA ensures that Cisco Catalyst Center and its component services are all healthy and available before you start a migration. For more information on using Cisco Catalyst Center AURA tool, see Enhanced Visibility into the Cisco Catalyst Center using AURA.
- Ensure that you run the Cisco PDART (Cisco Prime Infrastructure Cisco Catalyst Center Assessment & Readiness Tool) analyzes a Cisco Prime Infrastructure deployment and assesses whether Cisco Catalyst Center supports the current deployment. For more information, see Cisco PDART - A Cisco Catalyst Center Readiness tool for the Cisco Prime Infrastructure.

Prerequisites for Using PI 3.10.4 Prime Data Migration Tool Update 05.02

Ensure that:

- You install Cisco Prime Infrastructure 3.10.4 Update 02 & Prime Data Migration Tool Update 05.01 or PI 3.10.4 Update 03 & Prime Data Migration Tool Update 05.01.
- You have Root or Super Users access privileges of Cisco Prime Infrastructure.
- You have access credentials of Cisco Catalyst Center.

- Refer the Cisco Prime Infrastructure and Cisco Catalyst Center Compatibility Matrix, on page 1.

Prerequisites for Using PI 3.9.x Prime Data Migration Tool Update 05.02

Ensure that:

- You install Cisco Prime Infrastructure 3.9.1 + PI 3.9.1 Update 02 or PI 3.9 + PI 3.9 Oracle Patch + PI 3.9.1 + PI 3.9.1 Update 02 on upgrade or PI 3.9.x Prime Data Migration Tool Update 05 or PI 3.9.x Prime Data Migration Tool Update 05.01.
- If you need support for Catalyst 9800 16.12.x version, you will need to install PI_3_9_Oct_Oracle_patch-1.0.8.ubf patch before you install PI 3.9.1. For instructions to install the Oracle Patch, see *Installing Cisco Prime Infrastructure System Patch 3.9* section in the Cisco Prime Infrastructure 3.9 Administrator Guide.
- You have Root or Super Users access privileges of Cisco Prime Infrastructure.
- You have access credentials of Cisco Catalyst Center.
- Refer the Cisco Prime Infrastructure and Cisco Catalyst Center Compatibility Matrix, on page 1.

Prerequisites for Using PI 3.8.x Prime Data Migration Tool Update 05.02

Ensure that:

- You install Cisco Prime Infrastructure 3.8.1 Update 03 or PI 3.8.x Prime Data Migration Tool Update 05 or PI 3.8.x Prime Data Migration Tool Update 05.01.
- You have Root or Super Users access privileges of Cisco Prime Infrastructure.
- You have access credentials of Cisco Catalyst Center.
- Refer the Cisco Prime Infrastructure and Cisco Catalyst Center Compatibility Matrix, on page 1.

Prerequisites for Using PI 3.7.x Prime Data Migration Tool Update 05.02

Ensure that:

- You install Cisco Prime Infrastructure 3.7.1 update 06 or PI 3.7.x Prime Data Migration Tool Update 05 or PI 3.7.x Prime Data Migration Tool Update 05.01.
- You have Root or Super Users access privileges of Cisco Prime Infrastructure.
- You have access credentials of Cisco Catalyst Center.
- Refer the Cisco Prime Infrastructure and Cisco Catalyst Center Compatibility Matrix, on page 1.

Migrating Data from Cisco Prime Infrastructure to Cisco Catalyst Center using Prime Data Migration Tool Update 05.02

This section helps you to migrate your Cisco Prime Infrastructure data from:

- PI 3.10.4 Update 02 & Prime Data Migration Tool Update 05.01, PI 3.10.4 Update 03 & Prime Data Migration Tool Update 05.01 to Cisco Catalyst Center using PI 3.10.4 Prime Data Migration Tool Update 05.02
- 3.9.1 Update 02, PI 3.9.x Prime Data Migration Tool Update 05, PI 3.9.x Prime Data Migration Tool Update 05.01 to Cisco Catalyst Center using PI 3.9.x Prime Data Migration Tool Update 05.02.
- PI 3.8.1 update 03, PI 3.8.x Prime Data Migration Tool Update 05, PI 3.8.x Prime Data Migration Tool Update 05.01 to Cisco Catalyst Center using PI 3.8.x Prime Data Migration Tool Update 05.02.
- PI 3.7.1 update 06, PI 3.7.x Prime Data Migration Tool Update 05, PI 3.7.x Prime Data Migration Tool Update 05.01 to Cisco Catalyst Center using PI 3.7.x Prime Data Migration Tool Update 05.02.

Follow this procedure to access the Cisco Prime Infrastructure to Cisco Catalyst Center migration by logging in to Cisco Prime Infrastructure:

Procedure

Step 1 Choose **Administration** > **Settings** > **System Settings** > **General** > **Prime Data Migration Tool**, and then click **Launch Prime Data Migration Tool** to open **Prime Infrastructure - Prime Data Migration Tool** page.

For 3.9.1, and 3.10.4 you can either:

Click **Prime Data Migration Tool** in the **Mega Menu** page.

Or

Launch Prime Data Migration Tool in the Getting Started page. Choose **Settings** > **Getting Started** > **Prime Data Migration Tool**, and then click **Launch Prime Data Migration Tool** to open the **Prime Infrastructure - Prime Data Migration Tool** page.

Before you launch the Prime Data Migration Tool, click **Execute PDART** to run the pre-assessment to analyze a Cisco Prime Infrastructure deployment and assesses whether Cisco Catalyst Center supports the current deployment. To know more information on how to install and run the Cisco PDART, See Install and Run PDART.

Click **Download Report** to download the PDART report in the pdf format.

Step 2 Click **Job history**, in the top-right corner of the Prime Data Migration Tool, the **Prime Data Migration Job History** window appears.

Step 3 In the **Prime Data Migration Job History window**, do the following:

a) Click **Force Sync** to view the list of jobs that are force synced and the job details such as Cisco Catalyst Center IP, Start Time, End Time, Status and Info. You can click on the ***i*** icon next to the status column of the corresponding jobs to view the detailed information. You can also click on the hyperlinked completed or failed status to view the respective job summary in the **Job Summary** window.

b) Click **Dynamic Sync** to view the list of dynamically synced job details such as Cisco Catalyst Center IP, Start Time, End Time, Status, and Info. You can click on the i icon next to the status column of the corresponding jobs to view the detailed information.

c) You can search for the job history by choosing a category from the drop-down list such as Groups/Maps, Devices, ISE, CMX and Templates or by using the search box.

If you choose Devices or ISE or CMX categories, enter the IP address in the search box and click Search to retrieve the job details.

Step 4 Click **Download Logs** in the top-right corner of the Prime Data Migration Tool, to download the prime migration logs in the .ZIP format.

Step 5 Click **Add Cisco Catalyst Center** Server.

Step 6 Enter the following Cisco Catalyst Center server details:

a) Server IP Address or Hostname.

b) Username.

c) Password.

d) Confirm Password.

You can integrate only one Cisco Catalyst Center server at a time.

When an invalid IP (invalid TOFU certificate) is added in the 'IP Address' field , a pop up will be displayed with the error message 'Invalid Certificate' and "To delete the existing cerificate click here". You can remove the invalid certificate directly from the TOFU certification user interface by clicking the click here hyperlink in the error message.

Step 7 Click **Save**, to check server reachability.

Step 8 (Optional) Click **Multi Server Settings**, to archive, and restore the data that is migrated from Prime Infrastructure to Catalyst Center. It is recommended to use this option after Force Sync.

You can use the following options to archive the migrated data:

- **List of Cisco Catalyst Center Archive Available** - Displays the list of available archives.
- **Back-up Current Cisco Catalyst Center Pairing** - Backup the currently paired Cisco Catalyst Center server details in the migration tool.
- **Back-up Current & Load Cisco Catalyst Center Archive** - Current Cisco Catalyst Center server and its details are backed up and you are prompted to load any other available archive by entering the IP address.
- **Delete Cisco Catalyst Center Archive** - Deletes the selected Catalyst Center archives.

Step 9 In the **Sync Settings** window:

a) You can check for the Supported or Available Limits of the Cisco Catalyst Center server for the **Site Groups/Site Maps** , **Devices**, and **Templates**. Supported or Available Limits of Cisco Catalyst Center vareis based on the Cisco Catalyst Center server cores count.

The Supported/Available limits are specified in the following table:

Table 10: Supported/Available Limits for Catalyst Center Core

Catalyst Center Core	Site Groups/Site Maps	Devices	Templates
44-Core	500	1000	1000
56-Core	1000	4000	1000

Catalyst Center Core	Site Groups/Site Maps	Devices	Templates
112-Core	2000	5000	1000

Table 11: Supported/Available Limits for Catalyst Center VM

Catalyst Center VM	Site Groups/Site Maps	Devices	Templates
32vCPU/256G	500	1000	1000

b) Check the **Enables automatic synchronization of data integrated with Cisco Catalyst Center** check box to automatically synchronize any updates to the set of migrated Groups, Devices and CMX from Cisco Prime Infrastructure to Cisco Catalyst Center.

c) Select the **Include newly added data during dynamic synchronization** check box to automatically migrate any new addition to the set of migrated Groups, Devices and CMX from Cisco Prime Infrastructure to Cisco Catalyst Center.

Note
Dynamic Synchronization does not support add, update or delete operations for the already migrated data and will not synchronize the data automatically for the following components:

- Maps
- CLI Templates
- ISE Server

Maps, CLI templates, and ISE server migration is achieved only by Force Sync.

- This check box is enabled only if you select the **Enables automatic synchronization of data integrated with Cisco Catalyst Center** check box.
- During force synchronization, if the **Enables automatic synchronization of data integrated with Cisco Catalyst Center** check box is enabled, any modifications that are made through force synchronization to the Location Group and Devices entities are dynamically synced in Cisco Catalyst Center.
- If the **Enables automatic synchronization of data integrated with Cisco Catalyst Center** check box is selected, CMX is dynamically assigned to Cisco Catalyst Center floor groups, when Cisco Prime Infrastructure imports maps to CMX.

d) If you select the **Enable CMX settings** check box, CMX will be pushed with floor groups. If you do not select the **Enable CMX settings** check box, CMX data will not be pushed to the Cisco Catalyst Center server.

e) If you select the **Enable ISE settings** check box, ISE server details will be pushed. If you do not select the **Enable ISE settings** check box, ISE data will not be pushed to the Cisco Catalyst Center server.

f) Select the **Migrate User Defined CLI Templates** check box to migrate the user-defined CLI and/or Composite Templates to Cisco Catalyst Center.

Step 10 Click **Next** to go to the **Select Groups** page.

Step 11 In the **Select Groups** window:

Expand the **Usage Details** section to view a summary of the site and device count details such as **Recommended**, **Selected for Migration**, and **Available**.

a) Check the **Sync only new selection** checkbox to migrate only the newly selected groups for migration. If you click Force sync, only newly selected groups will be migrated to Catalyst Center.
b) Uncheck the **Sync only new selection** checkbox to migrate only the newly selected groups and groups which is already migrated.
c) If you want to delete only the mapping from Prime data migration to Cisco Catalyst Center and retain the instances of migrated sites in the Catalyst Center for the current force sync, uncheck the **Delete sites in Cisco Catalyst Center for the current Force Sync** check box.
d) Check the **Delete sites in Cisco Catalyst Center for the current Force Sync** check box to delete the sites from Cisco Catalyst Center and remove the mapping from prime data migration to Cisco Catalyst Center for the current force sync.

   Uncheck the **Delete sites in Cisco Catalyst Center for the current Force Sync** check box to remove the mapping from Prime Data Migration Tool to Cisco Catalyst Center for the current force sync

e) If you want to move an entire group hierarchy to Cisco Catalyst Center, check the **Replicate Parent Hierarchy** check box and select the location groups in the **Prime Infrastructure Location Groups** pane.

   By default, when you select Site Groups, the buildings, floors, and associated maps are also selected.

   Click **Select Catalyst Center Parent** below the **Prime Infrastructure Location Groups** pane to open the **Cisco Catalyst Center Site Groups** window.

   Marked for Deletion label appears when you unselect an already migrated group with Delete sites in Cisco Catalyst Center for the current Force Sync check box, checked.

   Marked for Unmapping label appears when you unselect an already migrated group with Delete sites in Cisco Catalyst Center for the current Force Sync check box, unchecked.

   Select **Global** from the **Cisco Catalyst Center Site Groups** pane under which you want to move the PI groups and click **OK**. The selected groups will be added in the **Group Movement Log** pane with the label as **Marked for Migration**.

   Update Civic Location window pops up to enter the civic location details for the selected building, if no lcoation details are available. You can choose the **Address** or provide **Latitude** and **Longitude** values and click **Save** to update the civic details for the building which you selected.

f) If you want to move only a building or a floor to Cisco Catalyst Center under a different campus or area, click **Select Catalyst Center Parent** below the **Prime Infrastructure Location Groups** pane to open the **Cisco Catalyst Center Site Groups** window.

   Select a campus or an area from **Cisco Catalyst Center Site Groups** under which you need to move the building and select a building from Cisco Catalyst Center Site Groups under which you need to move the floor and click **OK**. The selected groups will be added in the **Group Movement Log** pane with the label as **Marked for Migration**.

If you click the **Close** or **Cancel** buttons in the **Cisco Catalyst Center Site Groups** window, the window closes without selecting any groups for migration and the **Group Movement Log** pane is not updated with the selected groups.

After you move the groups from Prime Infrastructure to Cisco Catalyst Center, **Marked for Migration** label appears on the moved groups.

Already migrated groups from Prime Infrastructure to Cisco Catalyst Center appear with the label as **Migrated** in the **Prime Infrastructure Location Groups** pane as well as the **Group Movement Log** pane.

The count of selected groups for migration appears as **Selected for Migration** under Sites. The count of selected devices for migration appears as **Selected for Migration** under Devices in **Usage details**.

Available groups count in Cisco Catalyst Center appears in the **Available** section under Sites and available devices count in Cisco Catalyst Center appears in the **Available** section under Devices in **Usage details**.

The **Prime Infrastructure Location Groups** pane lists all the Cisco Prime Infrastructure groups irrespective of any virtual domain.

Note

- Cisco Prime Infrastructure does not migrate devices assigned in a "Campus" to the Cisco Catalyst Center, when the migration tool is used. As a workaround, you can assign your devices to a "Building" or "Floor" type location group before using the migration tool.
- Devices assigned in the Location groups with 'Default' Group type are not migrated to Cisco Catalyst Center.

Catalyst Center Site Builder :To create sites directly in Cisco Catalyst Center so that you can move your sites from Prime Infrastructure to Cisco Catalyst Center, click **Catalyst Center Site Builder**.

In the **Catalyst Center Site Builder** window, if you select the **Area** radio button, enter the following information:

- **Site Name**: Site name that you can create in Cisco Catalyst Center.
- **Parent Site**: Cisco Catalyst Center parent under which you can create the site.

In the **Catalyst Center Site Builder** window, if you select the **Building** radio button to create a building in the Cisco Catalyst Center Area, enter the following information:

- **Site Name**: Building name that you can create in Cisco Catalyst Center.
- **Parent Site**: Cisco Catalyst Center parent under which you can create the building.
- **Civic Location**: Enter the civic location details under which you want to create the building.
- **GPS (Latitude/Longitude)**: These co-ordinates are auto-populated.

Click **Add** to create a site or building in Cisco Catalyst Center and clicl **Next**.

Step 12 In the **ISE & CMX Credentials** window:

a) Click the **ISE** tab to view the ISE server details that are present in Prime Infrastructure such as:

- Server Status
- Server IP
- Port
- Server Name
- Username
- Shared Secret: You must ensure that this shared secret field is not empty.
- Timeout: This value must not exceed 20.
- Retries

If no ISE server is present in Prime Infrastructure, a **No data available** message appears.

b) Click the **CMX** tab to can view the list of associated CMX servers for selected groups with the following details:

- Credential Status
- Server IP address

- Device Name
- Username
- Password
- SSH Username
- SSH Password

You must update the **SSH Username** and **SSH Password**, if it is not available for the respective CMX.

If the associated CMX is not found, then click **Next**

Note
When the Cisco Prime Infrastructure – Cisco Catalyst Center migration tool is active and auto sync is enabled, then CMX will be dynamically pushed to Cisco Catalyst Center floor groups. Cisco Catalyst Center will there by track the location data for assigned groups.

Step 13 If you check the **Migrate User Defined CLI Templates** check box in the **Sync Settings** page, then a new page **Select CLI Templates** appears after the CMX page.

Step 14 In the **Select CLI Templates** window:

a) Non-Migrated templates list all the available CLI or Composite User Defined Templates available in Prime Infrastructure. You can select the templates need to be migrated to Cisco Catalyst Center.

b) Migrated templates list all the migrated templates available in Cisco Catalyst Center. You can either update or delete these templates.

Note
By default all the rows are selected. Selected templates from the list are updated and the deselected templates are deleted from Cisco Catalyst Center.

Step 15 Click **Next**.

Step 16 In the **Summary** window:

a) You can view the overall summary of selected location groups, devices, associated maps, user-defined templates, CMX sesrvers, and ISE servers before migrating to the Cisco Catalyst Center.

b) Click the **CLI templates** tab to view the selected CLI templates listed here. Based on the device selection in the groups you can Add/Update or Delete the CLI/Composite user defined Templates in Cisco Catalyst Center.

c) In the **Sync Settings** tab, you can view the summary of the sync status.

Step 17 Click **Force Sync** to push data to the Cisco Catalyst Center server after the first migration.

A confirmation message appears **Catalyst Center data will be overwritten by PI data by the Force Sync**. Click **Yes** to proceed or **No** to stop Force Sync.

A success message appears after the successful completion of the Force Sync operation.

What to do next

1. If you want to revert the site hierarchy in Cisco Catalyst Center, uncheck the migrated groups in the Prime Data Migration tool and click **Force Sync**. This step deletes the migrated groups in Cisco Catalyst Center.

If you want to revert the device assignment (devices will be unassigned from Cisco Catalyst Center sites and assigned to migrated groups if the same devices are present both in Cisco Prime Infrastructure groups and Cisco Catalyst Center sites), perform the following steps:

- Uncheck the migrated groups in the Prime Data Migration tool and click **Force Sync**. This step deletes the migrated groups and devices in Cisco Catalyst Center.
- Add and assign or provision the devices in Cisco Catalyst Center in the required sites.

The pre-migration site hierarchy appears in Cisco Catalyst Center.

To migrate your Cisco Prime Infrastructure data again using the Prime Data Migration Tool , unassign the devices in Cisco Prime Infrastructure for the required groups and migrate the data.

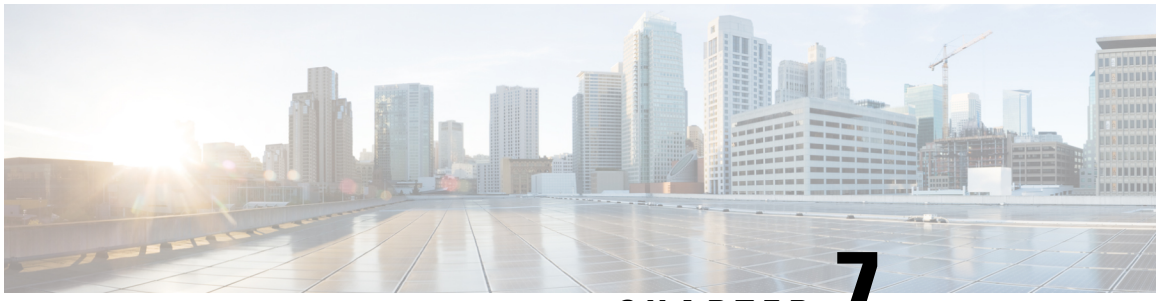
2. Multi-Catalyst Center is supported from Prime Data Migration Tool Update 02.0. This feature allows you to migrate to multiple Catalyst Center clusters (one Catalyst Center server at a time) and retain the migration data for each Catalyst Center server.
3. Refer the important notes about Cisco Prime Infrastructure - Cisco Catalyst Center migration, see Important Notes, on page 82.

Important Notes

This section contains important notes about Cisco Prime Infrastructure - Cisco Catalyst Center migration:

- You can integrate only one Cisco Catalyst Center server at a time.
- The Prime Data Migration tool supports port number TCP 8078. For more information, see Ports Used by Prime Infrastructure and Assurance in the *Cisco Prime Infrastructure 3.10 Quick Start Guide*.
- When the integration or initialization phase remains in the loading state for more than 5 minutes, check for any firewall restrictions, and ensure that no firewall restrictions are blocking or redirecting communication.
- CMX must be installed with a self or CA signed certificate to migrate from Prime Data Migration Tool Update 05.02 to Cisco Catalyst Center, 2.3.7.5. Aditionally, the same CMX server certificate needs to be manually imported to the Catalyst Center trust store prior to the migration.
- You can migrate obstacles that are created within an image to the Cisco Catalyst Center.
- Maps Migration fails when you migrate other groups along with the outdoor area to a non-global area.
- Outdoor area migration is not supported in Prime Data Migration tool.
- You can migrate ISE Server and CLI Templates along with the group migration.
- Groups with empty/null civic location values will be ignored for migration.
- When migrating ISE from Prime Infrastructure to Catalyst Center, ISE gets added to Catalyst Center in the failed state. To avoid this make sure to do the following:
  - Activate PXGrid on ISE
  - Enable ERS on ISE
  - ISE's CLI and GUI password must be the same

- Cisco Catalyst 9800 Series Wireless Controllers can be managed in multiple Cisco Prime Infrastructure servers or in Cisco Catalyst Center and Prime Infrastructure server as long as the subscription limit is available. To get managed, a single Prime Infrastructure server consumes or requires 30 config telemetry subscriptions, and a single Catalyst Center requires 70 or more telemetry subscriptions. IOS XE - 17.6 and later versions support 128 telemetry subscriptions.
- To connect with cisco.com, with respect to SWIM and Software Update, you must install PI_3_9_1_Security_Update_01 UBF along with PI 3.9.x Prime Data Migration Tool Update 03 UBF or PI_3_8_1_Security_Update_01 UBF along with PI 3.8.x Prime Data Migration Tool Update 03 UBF.
- You use a single session of the migration at a time for the same Cisco Prime Infrastructure server and Cisco Catalyst Center server pair.
- Once the CMX is migrated to Cisco Catalyst Center, it will not be managed by Cisco Prime Infrastructure.
- Any legacy devices which are not supported by Cisco Catalyst Center chosen for migration will be added to Cisco Catalyst Center inventory under Device Type column -“Unsupported Cisco Device”.
- Devices managed with SNMP v2 and v3 can be migrated to Cisco Catalyst Center.
- Any devices managed only with SNMP v1 or SNMP v3 with DES protocol of AuthPriv credentials in Cisco Prime Infrastructure cannot be migrated to Cisco Catalyst Center.
- Also, bulk migration fails if any one of the devices managed by SNMP v1 or v3 with DES protocol of AuthPriv credentials.
- Only the basic information of the groups will be migrated, but not the rules and profiles assigned to group.
- After integration, while upgrading Cisco Catalyst Center to an unsupported version, error will be thrown as “Unsupported Version” and migration will stop.
- Access Points positioned in the maps in Cisco Prime Infrastructure will migrate to Cisco Catalyst Center, only if we manage its WLC devices with CLI Credentials.
- For Composite template Migration - The associated template should not be System template. If any composite template with system template will not get migrated.
- During composite template migration all the associated template in composite template should be having the same device type. Otherwise migration will fail.
- Specific composite templates migration is not recommended till Cisco Catalyst Center 1.3.3.8 and 2.1.1.3. However it works in later Catalyst Center versions.
- Catalyst Center Version 2.2.1.0 specific update.
- Civic location is mandatory for Location Groups / Site groups migration especially from Cisco Catalyst Center 2.2.1.0 version.



CHAPTER 7

Migrate Cisco Prime Infrastructure Data to Cisco Catalyst Center Using Prime Data Migration Tool Update 05.01

This chapter provides information on migrating data and important points related to migrating Cisco Prime Infrastructure to Cisco Catalyst Center using the Prime Data Migration Tool Update 05.01.

- Prerequisites for Using Prime Data Migration Tool Update 05.01, on page 65
- Migrating Data from Cisco Prime Infrastructure to Cisco Catalyst Center using Prime Data Migration Tool Update 05.01, on page 66
- Important Notes, on page 73

Prerequisites for Using Prime Data Migration Tool Update 05.01

This section lists the prerequisites before using the Prime Data Migration Tool Update 05.01

- Ensure that you run the Cisco Catalyst Center AURA command line tool. The AURA tool performs a variety of health, scale and upgrade readiness checks for the Cisco Catalyst Center and the rest of the Fabric network. AURA ensures that Cisco Catalyst Center and its component services are all healthy and available before you start a migration. For more information on using Cisco Catalyst Center AURA tool, see Enhanced Visibility into the Cisco Catalyst Center using AURA.
- Ensure that you run the Cisco PDART (Cisco Prime Infrastructure Cisco Catalyst Center Assessment & Readiness Tool) analyzes a Cisco Prime Infrastructure deployment and assesses whether Cisco Catalyst Center supports the current deployment. For more information, see Cisco PDART - A Cisco Catalyst Center Readiness tool for the Cisco Prime Infrastructure.

Prerequisites for Using PI 3.10.4 Prime Data Migration Tool Update 05.01

Ensure that:

- You install Cisco Prime Infrastructure 3.10.4 or PI 3.10.4 Prime Data Migration Tool Update 05.
- You have Root or Super Users access privileges of Cisco Prime Infrastructure.
- You have access credentials of Cisco Catalyst Center.

- Refer the Cisco Prime Infrastructure and Cisco Catalyst Center Compatibility Matrix, on page 1.

Prerequisites for Using PI 3.9.x Prime Data Migration Tool Update 05.01

Ensure that:

- You install Cisco Prime Infrastructure 3.9.1 + PI 3.9.1 Update 02 or PI 3.9 + PI 3.9 Oracle Patch + PI 3.9.1 + PI 3.9.1 Update 02 on upgrade or PI 3.9.x Prime Data Migration Tool Update 05.
- If you need support for Catalyst 9800 16.12.x version, you will need to install PI_3_9_Oct_Oracle_patch-1.0.8.ubf patch before you install PI 3.9.1. For instructions to install the Oracle Patch, see *Installing Cisco Prime Infrastructure System Patch 3.9* section in the Cisco Prime Infrastructure 3.9 Administrator Guide.
- You have Root or Super Users access privileges of Cisco Prime Infrastructure.
- You have access credentials of Cisco Catalyst Center.
- Refer the Cisco Prime Infrastructure and Cisco Catalyst Center Compatibility Matrix, on page 1.

Prerequisites for Using PI 3.8.x Prime Data Migration Tool Update 05.01

Ensure that:

- You install Cisco Prime Infrastructure 3.8.1 Update 03 or PI 3.8.x Prime Data Migration Tool Update 05.
- You have Root or Super Users access privileges of Cisco Prime Infrastructure.
- You have access credentials of Cisco Catalyst Center.
- Refer the Cisco Prime Infrastructure and Cisco Catalyst Center Compatibility Matrix, on page 1.

Prerequisites for Using PI 3.7.x Prime Data Migration Tool Update 05.01

Ensure that:

- You install Cisco Prime Infrastructure 3.7.1 update 06 or PI 3.7.x Prime Data Migration Tool Update 05.
- You have Root or Super Users access privileges of Cisco Prime Infrastructure.
- You have access credentials of Cisco Catalyst Center.
- Refer the Cisco Prime Infrastructure and Cisco Catalyst Center Compatibility Matrix, on page 1.

Migrating Data from Cisco Prime Infrastructure to Cisco Catalyst Center using Prime Data Migration Tool Update 05.01

This section helps you to migrate your Cisco Prime Infrastructure data from:

- PI 3.10.4, PI 3.10.4 Prime Data Migration Tool Update 05 to Cisco Catalyst Center using PI 3.10.4 Prime Data Migration Tool Update 05.01
- PI 3.9.1 Update 02, PI 3.9.x Prime Data Migration Tool Update 05 to Cisco Catalyst Center using PI 3.9.x Prime Data Migration Tool Update 05.01.
- PI 3.8.1 update 03, PI 3.8.x Prime Data Migration Tool Update 05 to Cisco Catalyst Center using PI 3.8.x Prime Data Migration Tool Update 05.01.
- PI 3.7.1 update 06, PI 3.8.x Prime Data Migration Tool Update 05 to Cisco Catalyst Center using PI 3.7.x Prime Data Migration Tool Update 05.01.

Follow this procedure to access the Cisco Prime Infrastructure to Cisco Catalyst Center migration by logging in to Cisco Prime Infrastructure:

Procedure

Step 1 Choose **Administration** > **Settings** > **System Settings** > **General** > **Prime Data Migration Tool**, and then click **Launch Prime Data Migration Tool** to open **Prime Infrastructure - Prime Data Migration Tool** page.

For 3.9.1, and 3.10.4 you can either:

Click **Prime Data Migration Tool** in the **Mega Menu** page.

Or

Launch Prime Data Migration Tool in the Getting Started page. Choose **Settings** > **Getting Started** > **Prime Data Migration Tool**, and then click **Launch Prime Data Migration Tool** to open the **Prime Infrastructure - Prime Data Migration Tool** page.

Before you launch the Prime Data Migration Tool, click **Execute PDART** to run the pre-assessment to analyze a Cisco Prime Infrastructure deployment and assesses whether Cisco Catalyst Center supports the current deployment. To know more information on how to install and run the Cisco PDART, See Install and Run PDART.

Click **Download Report** to download the PDART report in the pdf format.

Step 2 Click **Job history**, in the top-right corner of the Prime Data Migration Tool, the **Prime Data Migration Job History** window appears.

Step 3 In the **Prime Data Migration Job History window**, do the following:

a) Click **Force Sync** to view the list of jobs that are force synced and the job details such as Cisco Catalyst Center IP, Start Time, End Time, Status and Info. You can click on the ***i*** icon next to the status column of the corresponding jobs to view the detailed information. You can also click on the hyperlinked completed or failed status to view the respective job summary in the **Job Summary** window.

b) Click **Dynamic Sync** to view the list of dynamically synced job details such as Cisco Catalyst Center IP, Start Time, End Time, Status, and Info. You can click on the i icon next to the status column of the corresponding jobs to view the detailed information.

c) You can search for the job history by choosing a category from the drop-down list such as Groups/Maps, Devices, ISE, CMX and Templates or by using the search box.

If you choose Devices or ISE or CMX categories, enter the IP address in the search box and click Search to retrieve the job details.

Step 4 Click **Download Logs** in the top-right corner of the Prime Data Migration Tool, to download the prime migration logs in the .ZIP format.

Step 5 Click **Add Cisco Catalyst Center** Server.

Step 6 Enter the following Cisco Catalyst Center server details:

a) Server IP Address or Hostname.
b) Username.
c) Password.
d) Confirm Password.

You can integrate only one Cisco Catalyst Center server at a time.

When an invalid IP (invalid TOFU certificate) is added in the 'IP Address' field , a pop up will be displayed with the error message 'Invalid Certificate' and "To delete the existing cerificate click here". You can remove the invalid certificate directly from the TOFU certification user interface by clicking the click here hyperlink in the error message.

Step 7 Click **Save**, to check server reachability.

Step 8 (Optional) Click **Multi Server Settings**, to archive, and restore the data that is migrated from Prime Infrastructure to Catalyst Center. It is recommended to use this option after Force Sync.

You can use the following options to archive the migrated data:

- **List of Cisco Catalyst Center Archive Available** - Displays the list of available archives.
- **Back-up Current Cisco Catalyst Center Pairing** - Backup the currently paired Cisco Catalyst Center server details in the migration tool.
- **Back-up Current & Load Cisco Catalyst Center Archive** - Current Cisco Catalyst Center server and its details are backed up and you are prompted to load any other available archive by entering the IP address.
- **Delete Cisco Catalyst Center Archive** - Deletes the selected Catalyst Center archives.

Step 9 In the **Sync Settings** window:

a) You can check for the Supported or Available Limits of the Cisco Catalyst Center server for the **Site Groups/Site Maps** , **Devices**, and **Templates**. Supported or Available Limits of Cisco Catalyst Center vareis based on the Cisco Catalyst Center server cores count.

The Supported/Available limits are specified in the following table:

Table 12: Supported/Available Limits

Catalyst Center Core	Site Groups/Site Maps	Devices	Templates
44-Core	500	1000	1000
56-Core	1000	4000	1000
112-Core	2000	5000	1000

b) Check the **Enables automatic synchronization of data integrated with Cisco Catalyst Center** check box to automatically synchronize any updates to the set of migrated Groups, Devices and CMX from Cisco Prime Infrastructure to Cisco Catalyst Center.
c) Select the **Include newly added data during dynamic synchronization** check box to automatically migrate any new addition to the set of migrated Groups, Devices and CMX from Cisco Prime Infrastructure to Cisco Catalyst Center.

Note

Dynamic Synchronization does not support add, update or delete operations for the already migrated data and will not synchronize the data automatically for the following components:

- Maps
- CLI Templates
- ISE Server

Maps, CLI templates, and ISE server migration is achieved only by Force Sync.

- This check box is enabled only if you select the **Enables automatic synchronization of data integrated with Cisco Catalyst Center** check box.
- During force synchronization, if the **Enables automatic synchronization of data integrated with Cisco Catalyst Center** check box is enabled, any modifications that are made through force synchronization to the Location Group and Devices entities are dynamically synced in Cisco Catalyst Center.
- If the **Enables automatic synchronization of data integrated with Cisco Catalyst Center** check box is selected, CMX is dynamically assigned to Cisco Catalyst Center floor groups, when Cisco Prime Infrastructure imports maps to CMX.

d) If you select the **Enable CMX settings** check box, CMX will be pushed with floor groups. If you do not select the **Enable CMX settings** check box, CMX data will not be pushed to the Cisco Catalyst Center server.
e) If you select the **Enable ISE settings** check box, ISE server details will be pushed. If you do not select the **Enable ISE settings** check box, ISE data will not be pushed to the Cisco Catalyst Center server.
f) Select the **Migrate User Defined CLI Templates** check box to migrate the user-defined CLI and/or Composite Templates to Cisco Catalyst Center.

Step 10 Click **Next** to go to the **Select Groups** page.

Step 11 In the **Select Groups** window:

Expand the **Usage Details** section to view a summary of the site and device count details such as **Recommended**, **Selected for Migration**, and **Available**.

a) Check the **Sync only new selection** checkbox to migrate only the newly selected groups for migration. If you click Force sync, only newly selected groups will be migrated to Catalyst Center.
b) Uncheck the **Sync only new selection** checkbox to migrate only the newly selected groups and groups which is already migrated.
c) If you want to delete only the mapping from Prime data migration to Cisco Catalyst Center and retain the instances of migrated sites in the Catalyst Center for the current force sync, uncheck the **Delete sites in Cisco Catalyst Center for the current Force Sync** check box.
d) Check the **Delete sites in Cisco Catalyst Center for the current Force Sync** check box to delete the sites from Cisco Catalyst Center and remove the mapping from prime data migration to Cisco Catalyst Center for the current force sync.

   Uncheck the **Delete sites in Cisco Catalyst Center for the current Force Sync** check box to remove the mapping from Prime Data Migration Tool to Cisco Catalyst Center for the current force sync

e) If you want to move an entire group hierarchy to Cisco Catalyst Center, check the **Replicate Parent Hierarchy** check box and select the location groups in the **Prime Infrastructure Location Groups** pane.

   By default, when you select Site Groups, the buildings, floors, and associated maps are also selected.

   Click **Select Catalyst Center Parent** below the **Prime Infrastructure Location Groups** pane to open the **Cisco Catalyst Center Site Groups** window.

Marked for Deletion label appears when you unselect an already migrated group with Delete sites in Cisco Catalyst Center for the current Force Sync check box, checked.

Marked for Unmapping label appears when you unselect an already migrated group with Delete sites in Cisco Catalyst Center for the current Force Sync check box, unchecked.

Select **Global** from the **Cisco Catalyst Center Site Groups** pane under which you want to move the PI groups and click **OK**. The selected groups will be added in the **Group Movement Log** pane with the label as **Marked for Migration**.

Update Civic Location window pops up to enter the civic location details for the selected building, if no lcoation details are available. You can choose the **Address** or provide **Latitude** and **Longitude** values and click **Save** to update the civic details for the building which you selected.

f) If you want to move only a building or a floor to Cisco Catalyst Center under a different campus or area, click **Select Catalyst Center Parent** below the **Prime Infrastructure Location Groups** pane to open the **Cisco Catalyst Center Site Groups** window.

Select a campus or an area from **Cisco Catalyst Center Site Groups** under which you need to move the building and select a building from Cisco Catalyst Center Site Groups under which you need to move the floor and click **OK**. The selected groups will be added in the **Group Movement Log** pane with the label as **Marked for Migration**.

If you click the **Close** or **Cancel** buttons in the **Cisco Catalyst Center Site Groups** window, the window closes without selecting any groups for migration and the **Group Movement Log** pane is not updated with the selected groups.

After you move the groups from Prime Infrastructure to Cisco Catalyst Center, **Marked for Migration** label appears on the moved groups.

Already migrated groups from Prime Infrastructure to Cisco Catalyst Center appear with the label as **Migrated** in the **Prime Infrastructure Location Groups** pane as well as the **Group Movement Log** pane.

The count of selected groups for migration appears as **Selected for Migration** under Sites. The count of selected devices for migration appears as **Selected for Migration** under Devices in **Usage details**.

Available groups count in Cisco Catalyst Center appears in the **Available** section under Sites and available devices count in Cisco Catalyst Center appears in the **Available** section under Devices in **Usage details**.

The **Prime Infrastructure Location Groups** pane lists all the Cisco Prime Infrastructure groups irrespective of any virtual domain.

Note

- Cisco Prime Infrastructure does not migrate devices assigned in a "Campus" to the Cisco Catalyst Center, when the migration tool is used. As a workaround, you can assign your devices to a "Building" or "Floor" type location group before using the migration tool.
- Devices assigned in the Location groups with 'Default' Group type are not migrated to Cisco Catalyst Center.

Catalyst Center Site Builder :To create sites directly in Cisco Catalyst Center so that you can move your sites from Prime Infrastructure to Cisco Catalyst Center, click **Catalyst Center Site Builder**.

In the **Catalyst Center Site Builder** window, if you select the **Area** radio button, enter the following information:

- **Site Name**: Site name that you can create in Cisco Catalyst Center.
- **Parent Site**: Cisco Catalyst Center parent under which you can create the site.

In the **Catalyst Center Site Builder** window, if you select the **Building** radio button to create a building in the Cisco Catalyst Center Area, enter the following information:

- **Site Name**: Building name that you can create in Cisco Catalyst Center.
- **Parent Site**: Cisco Catalyst Center parent under which you can create the building.
- **Civic Location**: Enter the civic location details under which you want to create the building.
- **GPS (Latitude/Longitude)**: These co-ordinates are auto-populated.

Click **Add** to create a site or building in Cisco Catalyst Center and clicl **Next**.

Step 12 In the **ISE & CMX Credentials** window:

a) Click the **ISE** tab to view the ISE server details that are present in Prime Infrastructure such as:

- Server Status
- Server IP
- Port
- Server Name
- Username
- Shared Secret: You must ensure that this shared secret field is not empty.
- Timeout: This value must not exceed 20.
- Retries

If no ISE server is present in Prime Infrastructure, a **No data available** message appears.

b) Click the **CMX** tab to can view the list of associated CMX servers for selected groups with the following details:

- Credential Status
- Server IP address
- Device Name
- Username
- Password
- SSH Username
- SSH Password

You must update the **SSH Username** and **SSH Password**, if it is not available for the respective CMX.

If the associated CMX is not found, then click **Next**

Note
When the Cisco Prime Infrastructure – Cisco Catalyst Center migration tool is active and auto sync is enabled, then CMX will be dynamically pushed to Cisco Catalyst Center floor groups. Cisco Catalyst Center will there by track the location data for assigned groups.

Step 13 If you check the **Migrate User Defined CLI Templates** check box in the **Sync Settings** page, then a new page **Select CLI Templates** appears after the CMX page.

Step 14 In the **Select CLI Templates** window:

a) Non-Migrated templates list all the available CLI or Composite User Defined Templates available in Prime Infrastructure. You can select the templates need to be migrated to Cisco Catalyst Center.
b) Migrated templates list all the migrated templates available in Cisco Catalyst Center. You can either update or delete these templates.

Note
By default all the rows are selected. Selected templates from the list are updated and the deselected templates are deleted from Cisco Catalyst Center.

Step 15 Click **Next**.

Step 16 In the **Summary** window:

a) You can view the overall summary of selected location groups, devices, associated maps, user-defined templates, CMX sesrvers, and ISE servers before migrating to the Cisco Catalyst Center.
b) Click the **CLI templates** tab to view the selected CLI templates listed here. Based on the device selection in the groups you can Add/Update or Delete the CLI/Composite user defined Templates in Cisco Catalyst Center.
c) In the **Sync Settings** tab, you can view the summary of the sync status.

Step 17 Click **Force Sync** to push data to the Cisco Catalyst Center server after the first migration.

A confirmation message appears **Catalyst Center data will be overwritten by PI data by the Force Sync**. Click **Yes** to proceed or **No** to stop Force Sync.

A success message appears after the successful completion of the Force Sync operation.

What to do next

1. If you want to revert the site hierarchy in Cisco Catalyst Center, uncheck the migrated groups in the Prime Data Migration tool and click **Force Sync**. This step deletes the migrated groups in Cisco Catalyst Center.

   If you want to revert the device assignment (devices will be unassigned from Cisco Catalyst Center sites and assigned to migrated groups if the same devices are present both in Cisco Prime Infrastructure groups and Cisco Catalyst Center sites), perform the following steps:

   - Uncheck the migrated groups in the Prime Data Migration tool and click **Force Sync**. This step deletes the migrated groups and devices in Cisco Catalyst Center.
   - Add and assign or provision the devices in Cisco Catalyst Center in the required sites.

   The pre-migration site hierarchy appears in Cisco Catalyst Center.

   To migrate your Cisco Prime Infrastructure data again using the Prime Data Migration Tool , unassign the devices in Cisco Prime Infrastructure for the required groups and migrate the data.

2. Multi-Catalyst Center is supported from Prime Data Migration Tool Update 02.0. This feature allows you to migrate to multiple Catalyst Center clusters (one Catalyst Center server at a time) and retain the migration data for each Catalyst Center server.

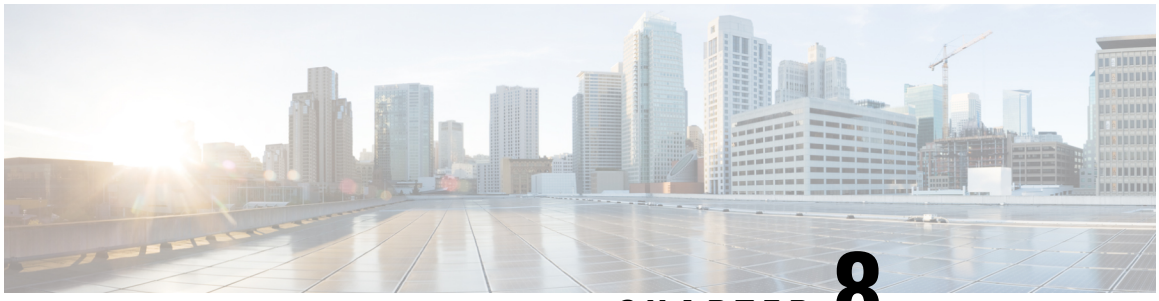
3. Refer the important notes about Cisco Prime Infrastructure - Cisco Catalyst Center migration, see Important Notes, on page 82.

Important Notes

This section contains important notes about Cisco Prime Infrastructure - Cisco Catalyst Center migration:

- You can integrate only one Cisco Catalyst Center server at a time.
- The Prime Data Migration tool supports port number TCP 8078. For more information, see Ports Used by Prime Infrastructure and Assurance in the *Cisco Prime Infrastructure 3.10 Quick Start Guide*.
- When the integration or initialization phase remains in the loading state for more than 5 minutes, check for any firewall restrictions, and ensure that no firewall restrictions are blocking or redirecting communication.
- CMX must be installed with a self or CA signed certificate to migrate from Prime Data Migration Tool Update 05.01 to Cisco Catalyst Center, 2.3.7.3. Aditionally, the same CMX server certificate needs to be manually imported to the Catalyst Center trust store prior to the migration.
- You can migrate obstacles that are created within an image to the Cisco Catalyst Center.
- Maps Archives (tar.gz files) to be deleted manually post migration from /opt/CSCOlumos/maparchives, if your system is running with low disk space.
- Maps Migration fails when you migrate other groups along with the outdoor area to a non-global area.
- Outdoor area migration is not supported in Prime Data Migration tool.
- You can migrate ISE Server and CLI Templates along with the group migration.
- Groups with empty/null civic location values will be ignored for migration.
- When migrating ISE from Prime Infrastructure to Catalyst Center, ISE gets added to Catalyst Center in the failed state. To avoid this make sure to do the following:
  - Activate PXGrid on ISE
  - Enable ERS on ISE
  - ISE's CLI and GUI password must be the same
- Cisco Catalyst 9800 Series Wireless Controllers can be managed in multiple Cisco Prime Infrastructure servers or in Cisco Catalyst Center and Prime Infrastructure server as long as the subscription limit is available. To get managed, a single Prime Infrastructure server consumes or requires 30 config telemetry subscriptions, and a single Catalyst Center requires 70 or more telemetry subscriptions. IOS XE - 17.6 and later versions support 128 telemetry subscriptions.
- To connect with cisco.com, with respect to SWIM and Software Update, you must install PI_3_9_1_Security_Update_01 UBF along with PI 3.9.x Prime Data Migration Tool Update 03 UBF or PI_3_8_1_Security_Update_01 UBF along with PI 3.8.x Prime Data Migration Tool Update 03 UBF.
- You use a single session of the migration at a time for the same Cisco Prime Infrastructure server and Cisco Catalyst Center server pair.
- Once the CMX is migrated to Cisco Catalyst Center, it will not be managed by Cisco Prime Infrastructure.
- Any legacy devices which are not supported by Cisco Catalyst Center chosen for migration will be added to Cisco Catalyst Center inventory under Device Type column -“Unsupported Cisco Device”.

- Devices managed with SNMP v2 and v3 can be migrated to Cisco Catalyst Center.
- Any devices managed only with SNMP v1 or SNMP v3 with DES protocol of AuthPriv credentials in Cisco Prime Infrastructure cannot be migrated to Cisco Catalyst Center.
- Also, bulk migration fails if any one of the devices managed by SNMP v1 or v3 with DES protocol of AuthPriv credentials.
- Only the basic information of the groups will be migrated, but not the rules and profiles assigned to group.
- After integration, while upgrading Cisco Catalyst Center to an unsupported version, error will be thrown as “Unsupported Version” and migration will stop.
- Access Points positioned in the maps in Cisco Prime Infrastructure will migrate to Cisco Catalyst Center, only if we manage its WLC devices with CLI Credentials.
- For Composite template Migration - The associated template should not be System template. If any composite template with system template will not get migrated.
- During composite template migration all the associated template in composite template should be having the same device type. Otherwise migration will fail.
- Specific composite templates migration is not recommended till Cisco Catalyst Center 1.3.3.8 and 2.1.1.3. However it works in later Catalyst Center versions.
- Catalyst Center Version 2.2.1.0 specific update.
- Civic location is mandatory for Location Groups / Site groups migration especially from Cisco Catalyst Center 2.2.1.0 version.



CHAPTER 8

Migrate Cisco Prime Infrastructure Data to Cisco Catalyst Center Using Prime Data Migration Tool Update 05

This chapter provides information on migrating data and important points related to migrating Cisco Prime Infrastructure to Cicso Catalyst Center using the Prime Data Migration Tool Update 05.

- Prerequisites for Using Prime Data Migration Tool Update 05, on page 75
- Migrating Data from Cisco Prime Infrastructure to Cisco DNA Center using Prime Data Migration Tool Update 05, on page 76
- Important Notes, on page 82

Prerequisites for Using Prime Data Migration Tool Update 05

This section lists the prerequisites before using the Prime Data Migration Tool Update 05

- Ensure that you run the Cisco DNA Center AURA command line tool. The AURA tool performs a variety of health, scale and upgrade readiness checks for the Cisco DNA Center and the rest of the Fabric network. AURA ensures that Cisco DNA Center and its component services are all healthy and available before you start a migration. For more information on using Cisco DNA Center AURA tool, see Enhanced Visibility into the Cisco DNA Center using AURA.
- Ensure that you run the Cisco PDART (Cisco Prime Infrastructure Cisco DNA Center Assessment & Readiness Tool) analyzes a Cisco Prime Infrastructure deployment and assesses whether Cisco DNA Center supports the current deployment. For more information, see Cisco PDART - A Cisco DNA Center Readiness tool for the Cisco Prime Infrastructure.

Prerequisites for Using PI 3.10.4 Prime Data Migration Tool Update 05

Ensure that:

- You install Cisco Prime Infrastructure 3.10.4.
- You have Root or Super Users access privileges of Cisco Prime Infrastructure.
- You have access credentials of Cisco DNA Center.

- Refer the Cisco Prime Infrastructure and Cisco DNA Center Compatibility Matrix, on page 1.

Prerequisites for Using PI 3.9.x Prime Data Migration Tool Update 05

Ensure that:

- You install Cisco Prime Infrastructure 3.9.1 + PI 3.9.1 Update 02 or PI 3.9 + PI 3.9 Oracle Patch + PI 3.9.1 + PI 3.9.1 Update 02 on upgrade.
- If you need support for Catalyst 9800 16.12.x version, you will need to install PI_3_9_Oct_Oracle_patch-1.0.8.ubf patch before you install PI 3.9.1. For instructions to install the Oracle Patch, see *Installing Cisco Prime Infrastructure System Patch 3.9* section in the Cisco Prime Infrastructure 3.9 Administrator Guide.
- You have Root or Super Users access privileges of Cisco Prime Infrastructure.
- You have access credentials of Cisco DNA Center.
- Refer the Cisco Prime Infrastructure and Cisco DNA Center Compatibility Matrix, on page 1.

Prerequisites for Using PI 3.8.x Prime Data Migration Tool Update 05

Ensure that:

- You install Cisco Prime Infrastructure 3.8.1 Update 03.
- You have Root or Super Users access privileges of Cisco Prime Infrastructure.
- You have access credentials of Cisco DNA Center.
- Refer the Cisco Prime Infrastructure and Cisco DNA Center Compatibility Matrix, on page 1.

Prerequisites for Using PI 3.7.x Prime Data Migration Tool Update 05

Ensure that:

- You install Cisco Prime Infrastructure 3.7.1 Update 06.
- You have Root or Super Users access privileges of Cisco Prime Infrastructure.
- You have access credentials of Cisco DNA Center.
- Refer the Cisco Prime Infrastructure and Cisco DNA Center Compatibility Matrix, on page 1.

Migrating Data from Cisco Prime Infrastructure to Cisco DNA Center using Prime Data Migration Tool Update 05

This section helps you to migrate your Cisco Prime Infrastructure data from:

- PI 3.10.4 to Cisco DNA Center using PI 3.10.4 Prime Data Migration Tool Update 05.

- PI 3.9.1 Update 02 to Cisco DNA Center using PI 3.9.x Prime Data Migration Tool Update 05.
- PI 3.8.1 update 03 to Cisco DNA Center using PI 3.8.x Prime Data Migration Tool Update 05.
- PI 3.7.1 update 06 to Cisco DNA Center using PI 3.7.x Prime Data Migration Tool Update 05.

Follow this procedure to access the Cisco Prime Infrastructure to Cisco DNA Center migration by logging in to Cisco Prime Infrastructure:

Procedure

Step 1 Choose **Administration** > **Settings** > **System Settings** > **General** > **Prime Data Migration Tool**, and then click **Launch Prime Data Migration Tool** to open **Prime Infrastructure - Prime Data Migration Tool** page.

For 3.9.1, and 3.10.4 you can either:

Click **Prime Data Migration Tool** in the **Mega Menu** page.

Or

Launch Prime Data Migration Tool in the Getting Started page. Choose **Settings** > **Getting Started** > **Prime Data Migration Tool**, and then click **Launch Prime Data Migration Tool** to open the **Prime Infrastructure - Prime Data Migration Tool** page.

Before you launch the Prime Data Migration Tool, click **Execute PDART** to run the pre-assessment to analyze a Cisco Prime Infrastructure deployment and assesses whether Cisco DNA Center supports the current deployment. To know more information on how to install and run the Cisco PDART, See Install and Run PDART.

Click **Download Report** to download the PDART report in the pdf format.

Step 2 Click **Job history**, in the top-right corner of the Prime Data Migration Tool, the **Prime Data Migration Job History** window appears.

Step 3 In the **Prime Data Migration Job History window**, do the following:

a) Click **Force Sync** to view the list of jobs that are force synced and the job details such as Cisco DNA Center IP, Start Time, End Time, Status and Info. You can click on the i icon next to the status column of the corresponding jobs to view the detailed information. You can also click on the hyperlinked completed or failed status to view the respective job summary in the **Job Summary** window.

b) Click **Dynamic Sync** to view the list of dynamically synced job details such as Cisco DNA Center IP, Start Time, End Time, Status, and Info. You can click on the i icon next to the status column of the corresponding jobs to view the detailed information.

c) You can search for the job history by choosing a category from the drop-down list such as Groups/Maps, Devices, ISE, CMX and Templates or by using the search box.

If you choose Devices or ISE or CMX categories, enter the IP address in the search box and click Search to retrieve the job details.

Step 4 Click **Download Logs** in the top-right corner of the Prime Data Migration Tool, to download the prime migration logs in the .ZIP format.

Step 5 Click **Add Cisco DNA Center** Server.

Step 6 Enter the following Cisco DNA Center server details:

a) Server IP Address or Hostname.

b) Username.

c) Password.
d) Confirm Password.

You can integrate only one Cisco DNA Center server at a time.

When an invalid IP (invalid TOFU certificate) is added in the 'IP Address' field , a pop up will be displayed with the error message 'Invalid Certificate' and "To delete the existing cerificate click here". You can remove the invalid certificate directly from the TOFU certification user interface by clicking the click here hyperlink in the error message.

Step 7 Click **Save**, to check server reachability.

Step 8 (Optional) Click **Multi Server Settings**, to archive, and restore the data that is migrated from Prime Infrastructure to DNA Center. It is recommended to use this option after Force Sync.

You can use the following options to archive the migrated data:

- **List of Cisco DNA Center Archive Available** - Displays the list of available archives.
- **Back-up Current Cisco DNA Center Pairing** - Backup the currently paired Cisco DNA Center server details in the migration tool.
- **Back-up Current & Load Cisco DNA Center Archive** - Current Cisco DNA Center server and its details are backed up and you are prompted to load any other available archive by entering the IP address.
- **Delete Cisco DNA Center Archive** - Deletes the selected DNA Center archives.

Step 9 In the **Sync Settings** window:

a) You can check for the Supported or Available Limits of the Cisco DNA Center server for the **Site Groups/Site Maps** , **Devices**, and **Templates**. Supported or Available Limits of Cisco DNA Center vareis based on the Cisco DNA Center server cores count.

The Supported/Available limits are specified in the following table:

Table 13: Supported/Available Limits

DNAC Core	Site Groups/Site Maps	Devices	Templates
44-Core	500	1000	1000
56-Core	1000	4000	1000
112-Core	2000	5000	1000

b) Check the **Enables automatic synchronization of data integrated with Cisco DNA Center** check box to automatically synchronize any updates to the set of migrated Groups, Devices and CMX from Cisco Prime Infrastructure to Cisco DNA Center.
c) Select the **Include newly added data during dynamic synchronization** check box to automatically migrate any new addition to the set of migrated Groups, Devices and CMX from Cisco Prime Infrastructure to Cisco DNA Center.

Note
Dynamic Synchronization does not support add, update or delete operations for the already migrated data and will not synchronize the data automatically for the following components:

- Maps
- CLI Templates

- ISE Server

Maps, CLI templates, and ISE server migration is achieved only by Force Sync.

- This check box is enabled only if you select the **Enables automatic synchronization of data integrated with Cisco DNA Center** check box.
- During force synchronization, if the **Enables automatic synchronization of data integrated with Cisco DNA Center** check box is enabled, any modifications that are made through force synchronization to the Location Group and Devices entities are dynamically synced in Cisco DNA Center.
- If the **Enables automatic synchronization of data integrated with Cisco DNA Center** check box is selected, CMX is dynamically assigned to Cisco DNA Center floor groups, when Cisco Prime Infrastructure imports maps to CMX.

d) If you select the **Enable CMX settings** check box, CMX will be pushed with floor groups. If you do not select the **Enable CMX settings** check box, CMX data will not be pushed to the Cisco DNA Center server.
e) If you select the **Enable ISE settings** check box, ISE server details will be pushed. If you do not select the **Enable ISE settings** check box, ISE data will not be pushed to the Cisco DNA Center server.
f) Select the **Migrate User Defined CLI Templates** check box to migrate the user-defined CLI and/or Composite Templates to Cisco DNA Center.

Step 10 Click **Next** to go to the **Select Groups** page.

Step 11 In the **Select Groups** window:

Expand the **Usage Details** section to view a summary of the site and device count details such as **Recommended**, **Selected for Migration**, and **Available**.

a) Check the **Sync only new selection** checkbox to migrate only the newly selected groups for migration. If you click Force sync, only newly selected groups will be migrated to DNA Center.
b) Uncheck the **Sync only new selection** checkbox to migrate only the newly selected groups and groups which is already migrated.
c) If you want to delete only the mapping from Prime data migration to Cisco DNA Center and retain the instances of migrated sites in the DNA Center for the current force sync, uncheck the **Delete sites in Cisco DNA Center for the current Force Sync** check box.
d) Check the **Delete sites in Cisco DNA Center for the current Force Sync** check box to delete the sites from Cisco DNA Center and remove the mapping from prime data migration to Cisco DNA Center for the current force sync.

   Uncheck the **Delete sites in Cisco DNA Center for the current Force Sync** check box to remove the mapping from Prime Data Migration Tool to Cisco DNA Center for the current force sync

e) If you want to move an entire group hierarchy to Cisco DNA Center, check the **Replicate Parent Hierarchy** check box and select the location groups in the **Prime Infrastructure Location Groups** pane.

   By default, when you select Site Groups, the buildings, floors, and associated maps are also selected.

   Click **Select DNAC Parent** below the **Prime Infrastructure Location Groups** pane to open the **Cisco DNA Center Site Groups** window.

   Marked for Deletion label appears when you unselect an already migrated group with Delete sites in Cisco DNA Center for the current Force Sync check box, checked.

   Marked for Unmapping label appears when you unselect an already migrated group with Delete sites in Cisco DNA Center for the current Force Sync check box, unchecked.

Select **Global** from the **Cisco DNA Center Site Groups** pane under which you want to move the PI groups and click **OK**. The selected groups will be added in the **Group Movement Log** pane with the label as **Marked for Migration**.

Update Civic Location window pops up to enter the civic location details for the selected building, if no lcoation details are available. You can choose the **Address** or provide **Latitude** and **Longitude** values and click **Save** to update the civic details for the building which you selected.

f) If you want to move only a building or a floor to Cisco DNA Center under a different campus or area, click **Select DNAC Parent** below the **Prime Infrastructure Location Groups** pane to open the **Cisco DNA Center Site Groups** window.

Select a campus or an area from **Cisco DNA Center Site Groups** under which you need to move the building and select a building from Cisco DNA Center Site Groups under which you need to move the floor and click **OK**. The selected groups will be added in the **Group Movement Log** pane with the label as **Marked for Migration**.

If you click the **Close** or **Cancel** buttons in the **Cisco DNA Center Site Groups** window, the window closes without selecting any groups for migration and the **Group Movement Log** pane is not updated with the selected groups.

After you move the groups from Prime Infrastructure to Cisco DNA Center, **Marked for Migration** label appears on the moved groups.

Already migrated groups from Prime Infrastructure to Cisco DNA Center appear with the label as **Migrated** in the **Prime Infrastructure Location Groups** pane as well as the **Group Movement Log** pane.

The count of selected groups for migration appears as **Selected for Migration** under Sites. The count of selected devices for migration appears as **Selected for Migration** under Devices in **Usage details**.

Available groups count in Cisco DNA Center appears in the **Available** section under Sites and available devices count in Cisco DNA Center appears in the **Available** section under Devices in **Usage details**.

The **Prime Infrastructure Location Groups** pane lists all the Cisco Prime Infrastructure groups irrespective of any virtual domain.

Note

- Cisco Prime Infrastructure does not migrate devices assigned in a "Campus" to the Cisco DNA Center, when the migration tool is used. As a workaround, you can assign your devices to a "Building" or "Floor" type location group before using the migration tool.
- Devices assigned in the Location groups with 'Default' Group type are not migrated to Cisco DNA Center.

DNAC Site Builder :To create sites directly in Cisco DNA Center so that you can move your sites from Prime Infrastructure to Cisco DNA Center, click **DNAC Site Builder**.

In the **DNAC Site Builder** window, if you select the **Area** radio button, enter the following information:

- **Site Name**: Site name that you can create in Cisco DNA Center.
- **Parent Site**: Cisco DNA Center parent under which you can create the site.

In the **DNAC Site Builder** window, if you select the **Building** radio button to create a building in the Cisco DNA Center Area, enter the following information:

- **Site Name**: Building name that you can create in Cisco DNA Center.
- **Parent Site**: Cisco DNA Center parent under which you can create the building.
- **Civic Location**: Enter the civic location details under which you want to create the building.

- **GPS (Latitude/Longitude)**: These co-ordinates are auto-populated.

Click **Add** to create a site or building in Cisco DNA Center and clicl **Next**.

Step 12 In the **ISE & CMX Credentials** window:

a) Click the **ISE** tab to view the ISE server details that are present in Prime Infrastructure such as:

- Server Status
- Server IP
- Port
- Server Name
- Username
- Shared Secret: You must ensure that this shared secret field is not empty.
- Timeout: This value must not exceed 20.
- Retries

If no ISE server is present in Prime Infrastructure, a **No data available** message appears.

b) Click the **CMX** tab to can view the list of associated CMX servers for selected groups with the following details:

- Credential Status
- Server IP address
- Device Name
- Username
- Password
- SSH Username
- SSH Password

You must update the **SSH Username** and **SSH Password**, if it is not available for the respective CMX.

If the associated CMX is not found, then click **Next**

Note
When the Cisco Prime Infrastructure – Cisco DNA Center migration tool is active and auto sync is enabled, then CMX will be dynamically pushed to Cisco DNA Center floor groups. Cisco DNA Center will there by track the location data for assigned groups.

Step 13 If you check the **Migrate User Defined CLI Templates** check box in the **Sync Settings** page, then a new page **Select CLI Templates** appears after the CMX page.

Step 14 In the **Select CLI Templates** window:

a) Non-Migrated templates list all the available CLI or Composite User Defined Templates available in Prime Infrastructure. You can select the templates need to be migrated to Cisco DNA Center.

b) Migrated templates list all the migrated templates available in Cisco DNA Center. You can either update or delete these templates.

Note
By default all the rows are selected. Selected templates from the list are updated and the deselected templates are deleted from Cisco DNA Center.

Step 15 Click **Next**.

Step 16 In the **Summary** window:

a) You can view the overall summary of selected location groups, devices, associated maps, user-defined templates, CMX sesrvers, and ISE servers before migrating to the Cisco DNA Center.

b) Click the **CLI templates** tab to view the selected CLI templates listed here. Based on the device selection in the groups you can Add/Update or Delete the CLI/Composite user defined Templates in Cisco DNA Center.

c) In the **Sync Settings** tab, you can view the summary of the sync status.

Step 17 Click **Force Sync** to push data to the Cisco DNA Center server after the first migration.

A confirmation message appears **DNAC data will be overwritten by PI data by the Force Sync**. Click **Yes** to proceed or **No** to stop Force Sync.

A success message appears after the successful completion of the Force Sync operation.

What to do next

1. If you want to revert the site hierarchy in Cisco DNA Center, uncheck the migrated groups in the Prime Data Migration tool and click **Force Sync**. This step deletes the migrated groups in Cisco DNA Center.

   If you want to revert the device assignment (devices will be unassigned from Cisco DNA Center sites and assigned to migrated groups if the same devices are present both in Cisco Prime Infrastructure groups and Cisco DNA Center sites), perform the following steps:

   - Uncheck the migrated groups in the Prime Data Migration tool and click **Force Sync**. This step deletes the migrated groups and devices in Cisco DNA Center.
   - Add and assign or provision the devices in Cisco DNA Center in the required sites.

   The pre-migration site hierarchy appears in Cisco DNA Center.

   To migrate your Cisco Prime Infrastructure data again using the Prime Data Migration Tool , unassign the devices in Cisco Prime Infrastructure for the required groups and migrate the data.

2. Multi-DNAC is supported from Prime Data Migration Tool Update 02.0. This feature allows you to migrate to multiple DNAC clusters (one DNAC server at a time) and retain the migration data for each DNAC server.

3. Refer the important notes about Cisco Prime Infrastructure - Cisco DNA Center migration, see Important Notes, on page 82.

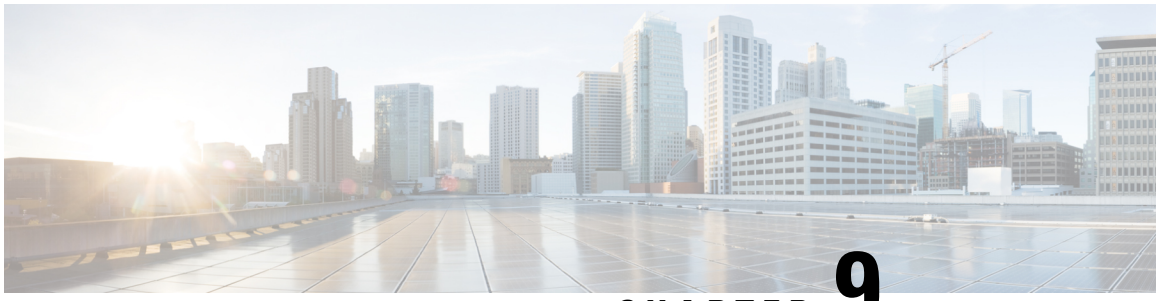
Important Notes

This section contains important notes about Cisco Prime Infrastructure - Cisco DNA Center migration:

- You can integrate only one Cisco DNA Center server at a time.

- When the integration or initialization phase remains in the loading state for more than 5 minutes, check for any firewall restrictions, and ensure that no firewall restrictions are blocking or redirecting communication.
- You can migrate obstacles that are created within an image to the Cisco DNA Center.
- Maps Archives (tar.gz files) to be deleted manually post migration from /opt/CSCOlumos/maparchives, if your system is running with low disk space.
- Maps Migration fails when you migrate other groups along with the outdoor area to a non-global area.
- Outdoor area migration is not supported in Prime Data Migration tool.
- You can migrate ISE Server and CLI Templates along with the group migration.
- Groups with empty/null civic location values will be ignored for migration.
- When migrating ISE from Prime Infrastructure to DNA Center, ISE gets added to DNA Center in the failed state. To avoid this make sure to do the following:
    - Activate PXGrid on ISE
    - Enable ERS on ISE
    - ISE's CLI and GUI password must be the same
- Cisco Catalyst 9800 Series Wireless Controllers can be managed in multiple Cisco Prime Infrastructure servers or in Cisco DNA Center and Prime Infrastructure server as long as the subscription limit is available. To get managed, a single Prime Infrastructure server consumes or requires 30 config telemetry subscriptions, and a single DNA Center requires 70 or more telemetry subscriptions. IOS XE - 17.6 and later versions support 128 telemetry subscriptions.
- To connect with cisco.com, with respect to SWIM and Software Update, you must install PI_3_9_1_Security_Update_01 UBF along with PI 3.9.x Prime Data Migration Tool Update 03 UBF or PI_3_8_1_Security_Update_01 UBF along with PI 3.8.x Prime Data Migration Tool Update 03 UBF.
- You use a single session of the migration at a time for the same Cisco Prime Infrastructure server and Cisco DNA Center server pair.
- Once the CMX is migrated to Cisco DNA Center, it will not be managed by Cisco Prime Infrastructure.
- Any legacy devices which are not supported by Cisco DNA Center chosen for migration will be added to Cisco DNA Center inventory under Device Type column -“Unsupported Cisco Device”.
- Devices managed with SNMP v2 and v3 can be migrated to Cisco DNA Center.
- Any devices managed only with SNMP v1 or SNMP v3 with DES protocol of AuthPriv credentials in Cisco Prime Infrastructure cannot be migrated to Cisco DNA Center.
- Also, bulk migration fails if any one of the devices managed by SNMP v1 or v3 with DES protocol of AuthPriv credentials.
- Only the basic information of the groups will be migrated, but not the rules and profiles assigned to group.
- After integration, while upgrading Cisco DNA Center to an unsupported version, error will be thrown as “Unsupported Version” and migration will stop.

- Access Points positioned in the maps in Cisco Prime Infrastructure will migrate to Cisco DNA Center, only if we manage its WLC devices with CLI Credentials.
- For Composite template Migration - The associated template should not be System template. If any composite template with system template will not get migrated.
- During composite template migration all the associated template in composite template should be having the same device type. Otherwise migration will fail.
- Specific composite templates migration is not recommended till Cisco DNA Center 1.3.3.8 and 2.1.1.3. However it works in later DNA Center versions.
- DNA Center Version 2.2.1.0 specific update.
- Civic location is mandatory for Location Groups / Site groups migration especially from Cisco DNA Center 2.2.1.0 version.



CHAPTER 9

Migrate Cisco Prime Infrastructure Data to Cisco Catalyst Center Using Prime Data Migration Tool Update 04

This chapter provides information on migrating data and important points related to migrating Cisco Prime Infrastructure to Cisco Catalyst Center using the Prime Data Migration Tool Update 04.

- Prerequisites for Using Prime Data Migration Tool Update 04, on page 85
- Migrating Data from Cisco Prime Infrastructure to Cisco DNA Center using Prime Data Migration Tool Update 04, on page 87
- Open Caveats for Prime Data Migration Tool Update 04, on page 93
- Resolved Caveats for Prime Data Migration Tool Update 04, on page 93
- Important Notes, on page 94

Prerequisites for Using Prime Data Migration Tool Update 04

This section lists the prerequisites before using the Prime Data Migration Tool Update 04

- Ensure that you run the Cisco DNA Center AURA command line tool. The AURA tool performs a variety of health, scale and upgrade readiness checks for the Cisco DNA Center and the rest of the Fabric network. AURA ensures that Cisco DNA Center and its component services are all healthy and available before you start a migration. For more information on using Cisco DNA Center AURA tool, see Enhanced Visibility into the Cisco DNA Center using AURA.
- Ensure that you run the Cisco PDART (Cisco Prime Infrastructure Cisco DNA Center Assessment & Readiness Tool) analyzes a Cisco Prime Infrastructure deployment and assesses whether Cisco DNA Center supports the current deployment. For more information, see Cisco PDART - A Cisco DNA Center Readiness tool for the Cisco Prime Infrastructure.

Prerequisites for Using PI 3.10.2 Prime Data Migration Tool Update 04

Ensure that:

- You install Cisco Prime Infrastructure 3.10.2 or PI 3.10.2 Prime Data Migration Tool Update 03.01
- You have Root or Super Users access privileges of Cisco Prime Infrastructure.

- You have access credentials of Cisco DNA Center.
- Refer the Cisco Prime Infrastructure and Cisco Catalyst Center Compatibility Matrix, on page 1.

Prerequisites for Using PI 3.10.1 Prime Data Migration Tool Update 04

Ensure that:

- You install Cisco Prime Infrastructure 3.10.1 or PI 3.10.1 Prime Data Migration Tool Update 03.01
- You have Root or Super Users access privileges of Cisco Prime Infrastructure.
- You have access credentials of Cisco DNA Center.
- Refer the Cisco Prime Infrastructure and Cisco Catalyst Center Compatibility Matrix, on page 1.

Prerequisites for Using PI 3.9.x Prime Data Migration Tool Update 04

Ensure that:

- You install Cisco Prime Infrastructure 3.9.1 or PI 3.9 + PI 3.9 Oracle Patch + PI 3.9.1 on upgrade, or PI 3.9.x Prime Data Migration Tool Update 02, or PI 3.9.x Prime Data Migration Tool Update 02.01, or PI 3.9.x Prime Data Migration Tool Update 03 or PI 3.9.x Prime Data Migration Tool Update 03.01
- If you need support for Catalyst 9800 16.12.x version, you will need to install **PI_3_9_Oct_Oracle_patch-1.0.8.ubf** patch before you install PI 3.9.1. For instructions to install the Oracle Patch, see Installing Cisco Prime Infrastructure System Patch 3.9 section in the Cisco Prime Infrastructure 3.9 Administrator Guide
- You have Root or Super Users access privileges of Cisco Prime Infrastructure.
- You have access credentials of Cisco DNA Center.
- Refer the Cisco Prime Infrastructure and Cisco Catalyst Center Compatibility Matrix, on page 1.

Prerequisites for Using PI 3.8.x Prime Data Migration Tool Update 04

Ensure that:

- You install Cisco Prime Infrastructure 3.8.1 update 01 or PI 3.8.x Prime Data Migration Tool Update 01 or PI 3.8.x Prime Data Migration Tool Hotfix, or PI 3.8.x Prime Data Migration Tool Update 02, or PI 3.8.x Prime Data Migration Tool Update 02.01, or PI 3.8.x Prime Data Migration Tool Update 03 or PI 3.8.x Prime Data Migration Tool Update 03.01.
- You have Root or Super Users access privileges of Cisco Prime Infrastructure.
- You have access credentials of Cisco DNA Center.
- Refer the Cisco Prime Infrastructure and Cisco Catalyst Center Compatibility Matrix, on page 1.

Prerequisites for Using PI 3.7.x Prime Data Migration Tool Update 04

Ensure that:

- You install Cisco Prime Infrastructure 3.7.1 update 05 or PI 3.7.x Prime Data Migration Tool Update 01, or PI 3.7.x Prime Data Migration Tool Update 02, or PI 3.7.x Prime Data Migration Tool Update 02.01, or PI 3.7.x Prime Data Migration Tool Update 03, or PI 3.7.x Prime Data Migration Tool Update 03.01.
- You have Root or Super Users access privileges of Cisco Prime Infrastructure.
- You have access credentials of Cisco DNA Center.
- Refer the Cisco Prime Infrastructure and Cisco Catalyst Center Compatibility Matrix, on page 1.

Migrating Data from Cisco Prime Infrastructure to Cisco DNA Center using Prime Data Migration Tool Update 04

This section helps you to migrate your Cisco Prime Infrastructure data from:

- PI 3.10.2, PI 3.10.2 Prime Data Migration Tool Update 03.01 to Cisco DNA Center using PI 3.10.2 Prime Data Migration Tool Update 04.
- PI 3.10.1, PI 3.10.1 Prime Data Migration Tool Update 03.01 to Cisco DNA Center using PI 3.10.1 Prime Data Migration Tool Update 04.
- PI 3.9.1, PI 3.9.x Prime Data Migration Tool Update 02, PI 3.9.x Prime Data Migration Tool Update 02.01, PI 3.9.x Prime Data Migration Tool Update 03, PI 3.9.x Prime Data Migration Tool Update 03.01 to Cisco DNA Center using PI 3.9.x Prime Data Migration Tool Update 04.
- PI 3.8.1 update 01, PI 3.8.x Prime Data Migration Tool Update 01, PI 3.8.x Prime DataMigration Tool Hotfix, PI 3.8.x Prime Data Migration Tool Update 02, PI 3.8.x Prime Data Migration Tool Update 02.01, PI 3.8.x Prime Data Migration Tool Update 03, PI 3.8.x Prime Data Migration Tool Update 03.01 to Cisco DNA Center using PI 3.8.x Prime Data Migration Tool Update 04
- PI 3.7.1 update 05 or PI 3.7.x Prime Data Migration Tool Update 01, or PI 3.7.x Prime Data Migration Tool Update 02, or PI 3.7.x Prime Data Migration Tool Update 02.01, or PI 3.7.x Prime Data Migration Tool Update 03, or PI 3.7.x Prime Data Migration Tool Update 03.01 to Cisco DNA Center using PI 3.7.x Prime Data Migration Tool Update 04

Follow this procedure to access the Cisco Prime Infrastructure to Cisco DNA Center migration by logging in to Cisco Prime Infrastructure:

Procedure

Step 1 Choose **Administration** > **Settings** > **System Settings** > **General** > **Prime Data Migration Tool**, and then click **Launch Prime Data Migration Tool** to open **Prime Infrastructure - Prime Data Migration Tool** page.

For 3.9.1, 3.10.1, 3.10.2 you can either:

Click **Prime Data Migration Tool** in the **Mega Menu** page.

Or

Launch Prime Data Migration Tool in the Getting Started page. Choose **Settings** > **Getting Started** > **Prime Data Migration Tool**, and then click **Launch Prime Data Migration Tool** to open the **Prime Infrastructure - Prime Data Migration Tool** page.

Step 2 Click **Job history**, in the top-right corner of the Prime Data Migration Tool, the **Prime Data Migration Job History** window appears.

Step 3 In the **Prime Data Migration Job History window**, do the following:

a) Click **Force Sync** to view the list of jobs that are force synced and the job details such as Cisco DNA Center IP, Start Time, End Time, Status and Info. You can click on the i icon next to the status column of the corresponding jobs to view the detailed information. You can also click on the hyperlinked completed or failed status to view the respective job summary in the **Job Summary** window.

b) Click **Dynamic Sync** to view the list of dynamically synced job details such as Cisco DNA Center IP, Start Time, End Time, Status, and Info. You can click on the i icon next to the status column of the corresponding jobs to view the detailed information.

c) You can search for the job history by choosing a category from the drop-down list such as Groups/Maps, Devices, ISE, CMX and Templates or by using the search box.

If you choose Devices or ISE or CMX categories, enter the IP address in the search box and click Search to retrieve the job details.

Step 4 Click **Add Cisco DNA Center** Server.

Step 5 Enter the following Cisco DNA Center server details:

a) Server IP Address or Hostname.

b) Username.

c) Password.

d) Confirm Password.

Note
You can integrate only one Cisco DNA Center server at a time.

Step 6 Click **Save**, to check server reachability.

Step 7 (Optional) Click **Multi Server Settings**, to archive, and restore the data that is migrated from Prime Infrastructure to DNA Center. It is recommended to use this option after Force Sync.

You can use the following options to archive the migrated data:

- **List of Cisco DNA Center Archive Available** - Displays the list of available archives.
- **Back-up Current Cisco DNA Center Pairing** - Backup the currently paired Cisco DNA Center server details in the migration tool.
- **Back-up Current & Load Cisco DNA Center Archive** - Current Cisco DNA Center server and its details are backed up and you are prompted to load any other available archive by entering the IP address.
- **Delete Cisco DNA Center Archive** - Deletes the selected DNA Center archives.

Step 8 In the **Sync Settings** window:

a) You can check for the Supported or Available Limits of the Cisco DNA Center server for the **Site Groups/Site Maps** , **Devices**, and **Templates**. Supported or Available Limits of Cisco DNA Center vareis based on the Cisco DNA Center server cores count.

The Supported/Available limits are specified in the following table:

Table 14: Supported/Available Limits

DNAC Core	Site Groups/Site Maps	Devices	Templates
44-Core	500	1000	1000
56-Core	1000	4000	1000
112-Core	2000	5000	1000

b) Check the **Enables automatic synchronization of data integrated with Cisco DNA Center** check box to automatically synchronize any updates to the set of migrated Groups, Devices and CMX from Cisco Prime Infrastructure to Cisco DNA Center.

c) Select the **Include newly added data during dynamic synchronization** check box to automatically migrate any new addition to the set of migrated Groups, Devices and CMX from Cisco Prime Infrastructure to Cisco DNA Center.

Note
Dynamic Synchronization does not support add, update or delete operations for the already migrated data and will not synchronize the data automatically for the following components:

- Maps
- CLI Templates
- ISE Server

Maps, CLI templates, and ISE server migration is achieved only by Force Sync.

- This check box is enabled only if you select the **Enables automatic synchronization of data integrated with Cisco DNA Center** check box.
- During force synchronization, if the **Enables automatic synchronization of data integrated with Cisco DNA Center** check box is enabled, any modifications that are made through force synchronization to the Location Group and Devices entities are dynamically synced in Cisco DNA Center.
- If the **Enables automatic synchronization of data integrated with Cisco DNA Center** check box is selected, CMX is dynamically assigned to Cisco DNA Center floor groups, when Cisco Prime Infrastructure imports maps to CMX.

d) If you select the **Enable CMX settings** check box, CMX will be pushed with floor groups. If you do not select the **Enable CMX settings** check box, CMX data will not be pushed to the Cisco DNA Center server.

e) If you select the **Enable ISE settings** check box, ISE server details will be pushed. If you do not select the **Enable ISE settings** check box, ISE data will not be pushed to the Cisco DNA Center server.

f) Select the **Migrate User Defined CLI Templates** check box to migrate the user-defined CLI and/or Composite Templates to Cisco DNA Center.

Step 9 Click **Next** to go to the **Select Groups** page.

Step 10 In the **Select Groups** window:

Expand the **Usage Details** section to view a summary of the site and device count details such as **Recommended**, **Selected for Migration**, and **Available**.

a) If you want to delete only the mapping from Prime data migration to Cisco DNA Center and retain the instances of migrated sites in the DNA Center for the current force sync, uncheck the **Delete sites in Cisco DNA Center for the current Force Sync** check box.
b) Check the **Delete sites in Cisco DNA Center for the current Force Sync** check box to delete the sites from Cisco DNA Center and remove the mapping from prime data migration to Cisco DNA Center for the current force sync.

   Uncheck the **Delete sites in Cisco DNA Center for the current Force Sync** check box to remove the mapping from Prime Data Migration Tool to Cisco DNA Center for the current force sync

c) If you want to move an entire group hierarchy to Cisco DNA Center, check the **Replicate Parent Hierarchy** check box and select the location groups in the **Prime Infrastructure Location Groups** pane.

   By default, when you select Site Groups, the buildings, floors, and associated maps are also selected.

   Click **Select DNAC Parent** below the **Prime Infrastructure Location Groups** pane to open the **Cisco DNA Center Site Groups** window.

   Marked for Deletion label appears when you unselect an already migrated group with Delete sites in Cisco DNA Center for the current Force Sync check box, checked.

   Marked for Unmapping label appears when you unselect an already migrated group with Delete sites in Cisco DNA Center for the current Force Sync check box, unchecked.

   Select **Global** from the **Cisco DNA Center Site Groups** pane under which you want to move the PI groups and click **OK**. The selected groups will be added in the **Group Movement Log** pane with the label as **Marked for Migration**.

   Update Civic Location window pops up to enter the civic location details for the selected building, if no lcoation details are available. You can choose the **Address** or provide **Latitude** and **Longitude** values and click **Save** to update the civic details for the building which you selected.

d) If you want to move only a building or a floor to Cisco DNA Center under a different campus or area, click **Select DNAC Parent** below the **Prime Infrastructure Location Groups** pane to open the **Cisco DNA Center Site Groups** window.

   Select a campus or an area from **Cisco DNA Center Site Groups** under which you need to move the building and select a building from Cisco DNA Center Site Groups under which you need to move the floor and click **OK**. The selected groups will be added in the **Group Movement Log** pane with the label as **Marked for Migration**.

If you click the **Close** or **Cancel** buttons in the **Cisco DNA Center Site Groups** window, the window closes without selecting any groups for migration and the **Group Movement Log** pane is not updated with the selected groups.

After you move the groups from Prime Infrastructure to Cisco DNA Center, **Marked for Migration** label appears on the moved groups.

Already migrated groups from Prime Infrastructure to Cisco DNA Center appear with the label as **Migrated** in the **Prime Infrastructure Location Groups** pane as well as the **Group Movement Log** pane.

The count of selected groups for migration appears as **Selected for Migration** under Sites. The count of selected devices for migration appears as **Selected for Migration** under Devices in **Usage details**.

Available groups count in Cisco DNA Center appears in the **Available** section under Sites and available devices count in Cisco DNA Center appears in the **Available** section under Devices in **Usage details**.

The **Prime Infrastructure Location Groups** pane lists all the Cisco Prime Infrastructure groups irrespective of any virtual domain.

Note

Cisco Prime Infrastructure does not migrate devices assigned in a "Campus" to the Cisco DNA Center, when the co-existence tool is used.

As a workaround, you can assign your devices to a "Building" or "Floor" type location group before using the co-existence tool.

Note
Devices assigned in the Location groups with 'Default' Group type are not migrated to Cisco DNA Center.

To create sites directly in Cisco DNA Center so that you can move your sites from Prime Infrastructure to Cisco DNA Center, click **DNAC Site Builder**.

In the **DNAC Site Builder** window, if you select the **Area** radio button, enter the following information:

- **Site Name**: Site name that you can create in Cisco DNA Center.
- **Parent Site**: Cisco DNA Center parent under which you can create the site.

In the **DNAC Site Builder** window, if you select the **Building** radio button to create a building in the Cisco DNA Center Area, enter the following information:

- **Site Name**: Building name that you can create in Cisco DNA Center.
- **Parent Site**: Cisco DNA Center parent under which you can create the building.
- **Civic Location**: Enter the civic location details under which you want to create the building.
- **GPS (Latitude/Longitude)**: These co-ordinates are auto-populated.

Click **Add** to create a site or building in Cisco DNA Center.

Step 11 Click **Next**.

Step 12 In the **ISE & CMX Credentials** window:

a) Click the **ISE** tab to view the ISE server details that are present in Prime Infrastructure such as:

- Server Status
- Server IP
- Port
- Server Name
- Username
- Shared Secret: You must ensure that this shared secret field is not empty.
- Timeout: This value must not exceed 20.
- Retries

If no ISE server is present in Prime Infrastructure, a **No data available** message appears.

b) Click the **CMX** tab to can view the list of associated CMX servers for selected groups with the following details:

- Credential Status
- Server IP address

- Device Name
- Username
- Password
- SSH Username
- SSH Password

You must update the **SSH Username** and **SSH Password**, if it is not available for the respective CMX.

If the associated CMX is not found, then click **Next**

Note
When the Cisco Prime Infrastructure – Cisco DNA Center migration tool is active and auto sync is enabled, then CMX will be dynamically pushed to Cisco DNA Center floor groups. Cisco DNA Center will there by track the location data for assigned groups.

Step 13 If you check the **Migrate User Defined CLI Templates** check box in the **Sync Settings** page, then a new page **Select CLI Templates** appears after the CMX page.

Step 14 In the **Select CLI Templates** window:

a) Non-Migrated templates list all the available CLI or Composite User Defined Templates available in Prime Infrastructure. You can select the templates need to be migrated to Cisco DNA Center.

b) Migrated templates list all the migrated templates available in Cisco DNA Center. You can either update or delete these templates.

Note
By default all the rows are selected. Selected templates from the list are updated and the deselected templates are deleted from Cisco DNA Center.

Step 15 Click **Next**.

Step 16 In the **Summary** window:

a) You can view the overall summary of selected location groups, devices, associated maps, user-defined templates, CMX sesrvers, and ISE servers before migrating to the Cisco DNA Center.

b) Click the **CLI templates** tab to view the selected CLI templates listed here. Based on the device selection in the groups you can Add/Update or Delete the CLI/Composite user defined Templates in Cisco DNA Center.

c) In the **Sync Settings** tab, you can view the summary of the sync status.

Step 17 Click **Force Sync** to push data to the Cisco DNA Center server after the first migration.

A confirmation message appears **DNAC data will be overwritten by PI data by the Force Sync**. Click **Yes** to proceed or **No** to stop Force Sync.

A success message appears after the successful completion of the Force Sync operation.

What to do next

1. If you want to revert the site hierarchy in Cisco DNA Center, uncheck the migrated groups in the Prime Data Migration tool and click **Force Sync**. This step deletes the migrated groups in Cisco DNA Center.

If you want to revert the device assignment (devices will be unassigned from Cisco DNA Center sites and assigned to migrated groups if the same devices are present both in Cisco Prime Infrastructure groups and Cisco DNA Center sites), perform the following steps:

- Uncheck the migrated groups in the Prime Data Migration tool and click **Force Sync**. This step deletes the migrated groups and devices in Cisco DNA Center.
- Add and assign or provision the devices in Cisco DNA Center in the required sites.

The pre-migration site hierarchy appears in Cisco DNA Center.

To migrate your Cisco Prime Infrastructure data again using the Prime Data Migration Tool , unassign the devices in Cisco Prime Infrastructure for the required groups and migrate the data.

2. Multi-DNAC is supported from Prime Data Migration Tool Update 02.0. This feature allows you to migrate to multiple DNAC clusters (one DNAC server at a time) and retain the migration data for each DNAC server.
3. Refer the important notes about Cisco Prime Infrastructure - Cisco DNA Center migration, see Important Notes, on page 94.

Open Caveats for Prime Data Migration Tool Update 04

The following table lists the open caveats in Prime Data Migration Tool Update 04.

Table 15: Open Caveats

Identifier	Description
CSCwd66695	Maps archives do not delete automatically post migration.

Resolved Caveats for Prime Data Migration Tool Update 04

The following table lists the resolved caveats in Prime Data Migration Tool Update 04.

Table 16: Resolved Caveats

Identifier	Description
CSCwc18904	Custom building migration may fail to migrate maps to Cisco DNA Center
CSCwc60844	Updates done to Already Migrated sites Not Working
CSCwc50283	Floor type not reflected in DNAC when different floor type is selected & migrated to Non-global
CSCwc76663	Maps Migration Not working If Default group is Parent for Campus

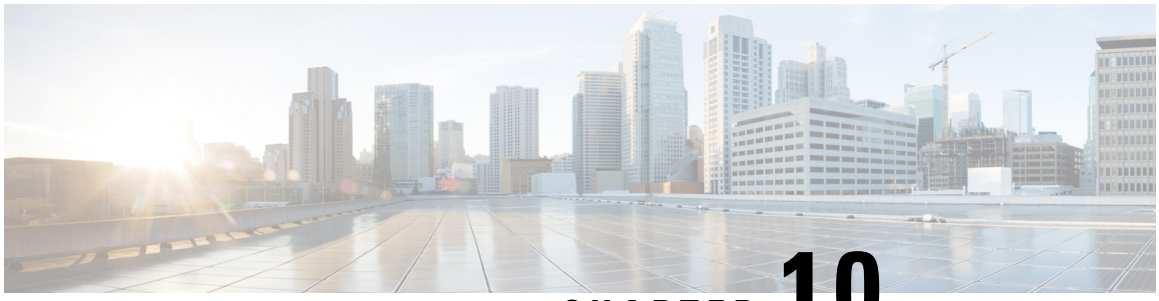
Identifier	Description
CSCwc97001	PDMT V3 forcibly converts the floor dimensions from feet to meters ignoring the desired metrics
CSCwd34636	PDMT v3.1 fails to migrate map data (hierarchy starting with building) in nonglobal migration
CSCvz78981	Enhancement - Need to update multiple civic locations for the campus and building
CSCwd64931	Catalyst 9800 WLC can be managed in both DNAC and Prime Infrastructure

Important Notes

This section contains important notes about Cisco Prime Infrastructure - Cisco DNA Center migration:

- You can integrate only one Cisco DNA Center server at a time.
- When the integration or initialization phase remains in the loading state for more than 5 minutes, check for any firewall restrictions, and ensure that no firewall restrictions are blocking or redirecting communication.
- Maps Archives (tar.gz files) to be deleted manually post migration from /opt/CSCOlumos/maparchives, if your system is running with low disk space.
- Maps Migration fails when you migrate other groups along with the outdoor area to a non-global area.
- Outdoor area migration is not supported in Prime Data Migration tool.
- You can migrate ISE Server and CLI Templates along with the group migration.
- Groups with empty/null civic location values will be ignored for migration.
- When migrating ISE from Prime Infrastructure to DNA Center, ISE gets added to DNA Center in the failed state. To avoid this make sure to do the following:
  - Activate PXGrid on ISE
  - Enable ERS on ISE
  - ISE's CLI and GUI password must be the same
- Cisco Catalyst 9800 Series Wireless Controllers can be managed in multiple Cisco Prime Infrastructure servers or in Cisco DNA Center and Prime Infrastructure server as long as the subscription limit is available. To get managed, a single Prime Infrastructure server consumes or requires 30 config telemetry subscriptions, and a single DNA Center requires 70 or more telemetry subscriptions. IOS XE - 17.6 and later versions support 128 telemetry subscriptions.
- To connect with cisco.com, with respect to SWIM and Software Update, you must install PI_3_9_1_Security_Update_01 UBF along with PI 3.9.x Prime Data Migration Tool Update 03 UBF or PI_3_8_1_Security_Update_01 UBF along with PI 3.8.x Prime Data Migration Tool Update 03 UBF.

- You use a single session of the migration at a time for the same Cisco Prime Infrastructure server and Cisco DNA Center server pair.
- Once the CMX is migrated to Cisco DNA Center, it will not be managed by Cisco Prime Infrastructure.
- Any legacy devices which are not supported by Cisco DNA Center chosen for migration will be added to Cisco DNA Center inventory under Device Type column -“Unsupported Cisco Device”.
- Devices managed with SNMP v2 and v3 can be migrated to Cisco DNA Center.
- Any devices managed only with SNMP v1 or SNMP v3 with DES protocol of AuthPriv credentials in Cisco Prime Infrastructure cannot be migrated to Cisco DNA Center.
- Also, bulk migration fails if any one of the devices managed by SNMP v1 or v3 with DES protocol of AuthPriv credentials.
- Only the basic information of the groups will be migrated, but not the rules and profiles assigned to group.
- After integration, while upgrading Cisco DNA Center to an unsupported version, error will be thrown as “Unsupported Version” and migration will stop.
- Access Points positioned in the maps in Cisco Prime Infrastructure will migrate to Cisco DNA Center, only if we manage its WLC devices with CLI Credentials.
- For Composite template Migration - The associated template should not be System template. If any composite template with system template will not get migrated.
- During composite template migration all the associated template in composite template should be having the same device type. Otherwise migration will fail.
- Specific composite templates migration is not recommended till Cisco DNA Center 1.3.3.8 and 2.1.1.3. However it works in later DNA Center versions.
- DNA Center Version 2.2.1.0 specific update.
- Civic location is mandatory for Location Groups / Site groups migration especially from Cisco DNA Center 2.2.1.0 version.



CHAPTER 10

Migrate Cisco Prime Infrastructure Data to Cisco DNA Center Using Prime Data Migration Tool Update 03

This chapter provides information on migrating data and important points related to migrating Cisco Prime Infrastructure to Cicso DNA Center using the Prime Data Migration Tool Update 03.

- Prerequisites for Using Prime Data Migration Tool Update 03, on page 97
- Migrating Data from Cisco Prime Infrastructure to Cisco DNA Center using Prime Data Migration Tool Update 03, on page 98
- Important Notes, on page 104
- Open Caveats for Prime Data Migration Tool Update 03, on page 105
- Resolved Caveats for Prime Data Migration Tool Update 03, on page 105

Prerequisites for Using Prime Data Migration Tool Update 03

This section lists the prerequisites before using the Prime Data Migration Tool Update 3:

- Ensure that you run the Cisco DNA Center AURA command line tool. The AURA tool performs a variety of health, scale and upgrade readiness checks for the Cisco DNA Center and the rest of the Fabric network. AURA ensures that Cisco DNA Center and its component services are all healthy and available before you start a migration. For more information on using Cisco DNA Center AURA tool, see Enhanced Visibility into the Cisco DNA Center using AURA.
- Ensure that you run the Cisco PDART (Cisco Prime Infrastructure Cisco DNA Center Assessment & Readiness Tool) analyzes a Cisco Prime Infrastructure deployment and assesses whether Cisco DNA Center supports the current deployment. For more information, see Cisco PDART - A Cisco DNA Center Readiness tool for the Cisco Prime Infrastructure.

Prerequisites for Using PI 3.9.x Prime Data Migration Tool Update 03

Ensure that:

- You install Cisco Prime Infrastructure PI 3.9.1 or PI 3.9 + PI 3.9 Oracle Patch + PI 3.9.1 on upgrade, or PI 3.9.x Prime Data Migration Tool Update 02, or PI 3.9.x Prime Data Migration Tool Update 02.01

If you need support for Catalyst 9800 16.12.x version, you will need to install **PI_3_9_Oct_Oracle_patch-1.0.8.ubf** patch before you install PI 3.9.1. For instructions to install the Oracle Patch, see Installing Cisco Prime Infrastructure System Patch 3.9 section in the Cisco Prime Infrastructure 3.9 Administrator Guide

- You have Root or Super Users access privileges of Cisco Prime Infrastructure.
- You have access credentials of Cisco DNA Center.
- Refer the Cisco Prime Infrastructure and Cisco Catalyst Center Compatibility Matrix, on page 1.

Prerequisites for Using PI 3.8.x Prime Data Migration Tool Update 03

Ensure that:

- You install Cisco Prime Infrastructure 3.8.1 update 01 or PI 3.8.x Prime Data Migration Tool Update 01 or PI 3.8.x Prime Data Migration Tool Hotfix, or PI 3.8.x Prime Data Migration Tool Update 02, or PI 3.8.x Prime Data Migration Tool Update 02.01.
- You have Root or Super Users access privileges of Cisco Prime Infrastructure.
- You have access credentials of Cisco DNA Center.
- Refer the Cisco Prime Infrastructure and Cisco Catalyst Center Compatibility Matrix, on page 1.

Prerequisites for Using PI 3.7.x Prime Data Migration Tool Update 03

Ensure that:

- You install Cisco Prime Infrastructure 3.7.1 update 05 or PI 3.7.x Prime Data Migration Tool Update 01, or PI 3.7.x Prime Data Migration Tool Update 02, or PI 3.7.x Prime Data Migration Tool Update 02.01.
- You have Root or Super Users access privileges of Cisco Prime Infrastructure.
- You have access credentials of Cisco DNA Center.
- Refer the Cisco Prime Infrastructure and Cisco Catalyst Center Compatibility Matrix, on page 1.

Migrating Data from Cisco Prime Infrastructure to Cisco DNA Center using Prime Data Migration Tool Update 03

This section helps you to migrate your Cisco Prime Infrastructure data from:

- PI 3.9.1, PI 3.9.x Prime Data Migration Tool Update 02, PI 3.9.x Prime Data Migration Tool Update 02.01 to Cisco DNA Center using PI 3.9.x Prime Data Migration Tool Update 03.
- PI 3.8.1 update 01, PI 3.8.x Prime Data Migration Tool Update 01, PI 3.8.x Prime DataMigration Tool Hotfix, PI 3.8.x Prime Data Migration Tool Update 02, PI 3.8.x Prime Data Migration Tool Update 02.01 to Cisco DNA Center using PI 3.8.x Prime Data Migration Tool Update 03.

- PI 3.7.1 update 05 , PI 3.7.x Prime Data Migration Tool Update 01, PI 3.7.x Prime Data Migration Tool Update 02, PI 3.7.x Prime Data Migration Tool Update 02.01 to Cisco DNA Center using PI 3.7.x Prime Data Migration Tool Update 03.

Follow this procedure to access the Cisco Prime Infrastructure to Cisco DNA Center migration by logging in to Cisco Prime Infrastructure:

Procedure

Step 1 Choose **Administration** > **Settings** > **System Settings** > **General** > **Prime Data Migration Tool**, and then click **Launch Prime Data Migration Tool** to open **Prime Infrastructure - Prime Data Migration Tool** page.

For 3.9.1, you can either:

Click **Prime Data Migration Tool** in the **Mega Menu** page.

Or

Launch Prime Data Migration Tool in the Getting Started page. Choose **Settings** > **Getting Started** > **Prime Data Migration Tool**, and then click **Launch Prime Data Migration Tool** to open the **Prime Infrastructure - Prime Data Migration Tool** page.

Step 2 Click **Job history**, in the top-right corner of the Prime Data Migration Tool to view Job Id, Cisco DNA Center IP, Start Time, End Time, and Status in the **Prime Data Migration Job History** window. The job summary displays only the latest 100 jobs.

Step 3 Click **Add Cisco DNA Center** Server.

Step 4 Enter the following Cisco DNA Center server details:

a) Server IP Address or Hostname.
b) Username.
c) Password.
d) Confirm Password.

Note
You can integrate only one Cisco DNA Center server at a time.

Step 5 Click **Save**, to check server reachability.

Step 6 (Optional) Click **Multi Server Settings**, to archive, and restore the data that is migrated from Prime Infrastructure to DNA Center. It is recommended to use this option after Force Sync.

You can use the following options to archive the migrated data:

- **List of Cisco DNA Center Archive Available** - Displays the list of available archives.
- **Back-up Current Cisco DNA Center Pairing** - Backup the currently paired Cisco DNA Center server details in the migration tool.
- **Back-up Current & Load Cisco DNA Center Archive** - Current Cisco DNA Center server and its details are backed up and you are prompted to load any other available archive by entering the IP address.
- **Delete Cisco DNA Center Archive** - Deletes the selected DNA Center archives.

Step 7 Click **Next** to go to **Sync Settings**.

Step 8 In the **Sync Settings** window:

a) You can check for the Supported or Available Limits of the Cisco DNA Center server for the **Site Groups/Site Maps** , **Devices**, and **Templates**. Supported or Available Limits of Cisco DNA Center vareis based on the Cisco DNA Center server cores count.

The Supported/Available limits are specified in the following table:

Table 17: Supported/Available Limits

DNAC Core	Site Groups/Site Maps	Devices	Templates
44-Core	500	1000	1000
56-Core	1000	4000	1000
112-Core	2000	5000	1000

b) Check the **Enables automatic synchronization of data integrated with Cisco DNA Center** check box to synchronize already migrated data set for the groups and devices from Prime Infrastructure to Cisco DNA Center automatically post modification.

c) Select the **Include newly added data during dynamic synchronization** check box to move newly created groups and newly added devices during dynamic synchronization if any, from Prime Infrastructure to Cisco DNA Center automatically post addition.

Note
Dynamic Synchronization does not support add, update or delete operations for the already migrated data and will not synchronize the data automatically for the following components:

- Maps
- CLI Templates
- ISE Server

Maps, CLI templates, and ISE server migration is achieved only by Force Sync.

- This check box is enabled only if you select the **Enables automatic synchronization of data integrated with Cisco DNA Center** check box.
- During force synchronization, if the **Enables automatic synchronization of data integrated with Cisco DNA Center** check box is enabled, any modifications that are made through force synchronization to the Location Group and Devices entities are dynamically synced in Cisco DNA Center.
- If the **Enables automatic synchronization of data integrated with Cisco DNA Center** check box is selected, CMX is dynamically assigned to Cisco DNA Center floor groups, when Cisco Prime Infrastructure imports maps to CMX. (Pre Req.: CMX dynamic sync works only on already migrated floor groups and CMX should exist in Cisco DNA Center server for CMX dynamic sync.)

d) If you select the **Enable CMX settings** check box, CMX will be pushed with floor groups. If you do not select the **Enable CMX settings** check box, CMX data will not be pushed to the Cisco DNA Center server.

e) If you select the **Enable ISE settings** check box, ISE server details will be pushed. If you do not select the **Enable ISE settings** check box, ISE data will not be pushed to the Cisco DNA Center server.

f) Select the **Migrate User Defined CLI Templates** check box to migrate the user-defined CLI and/or Composite Templates to Cisco DNA Center.

Step 9 Click **Next** to go to the **Select Groups** page.

Step 10 In the **Select Groups** window:

Expand the **Usage Details** section to view a summary of the site and device count details such as **Recommended**, **Selected for Migration**, and **Available**.

a) If you want to delete only the mapping from Prime data migration to Cisco DNA Center and retain the instances of migrated sites in the DNA Center for the current force sync, uncheck the **Delete sites in Cisco DNA Center for the current Force Sync** check box.

b) Check the **Delete sites in Cisco DNA Center for the current Force Sync** check box to delete the sites from Cisco DNA Center and remove the mapping from prime data migration to Cisco DNA Center for the current force sync.

c) If you want to move an entire group hierarchy to Cisco DNA Center, check the **Replicate Parent Hierarchy** check box and select the location groups in the **Prime Infrastructure Location Groups** pane.

   By default, when you select Site Groups, the buildings, floors, and associated maps are also selected.

   Click **Select DNAC Parent** below the **Prime Infrastructure Location Groups** pane to open the **Cisco DNA Center Site Groups** window.

   Marked for Deletion label appears when you unselect an already migrated group.

   Select **Global** from the **Cisco DNA Center Site Groups** pane under which you want to move the PI groups and click **OK**. The selected groups will be added in the **Group Movement Log** pane with the label as **Marked for Migration**.

d) If you want to move only a building or a floor to Cisco DNA Center under a different campus or area, click **Select DNAC Parent** below the **Prime Infrastructure Location Groups** pane to open the **Cisco DNA Center Site Groups** window.

   Select a campus or an area from **Cisco DNA Center Site Groups** under which you need to move the building and select a building from Cisco DNA Center Site Groups under which you need to move the floor and click **OK**. The selected groups will be added in the **Group Movement Log** pane with the label as **Marked for Migration**.

If you click the **Close** or **Cancel** buttons in the **Cisco DNA Center Site Groups** window, the window closes without selecting any groups for migration and the **Group Movement Log** pane is not updated with the selected groups.

After you move the groups from Prime Infrastructure to Cisco DNA Center, **Marked for Migration** label appears on the moved groups.

Already migrated groups from Prime Infrastructure to Cisco DNA Center appear with the label as **Migrated** in the **Prime Infrastructure Location Groups** pane as well as the **Group Movement Log** pane.

The count of selected groups for migration appears as **Selected for Migration** under Sites. The count of selected devices for migration appears as **Selected for Migration** under Devices in **Usage details**.

Available groups count in Cisco DNA Center appears in the **Available** section under Sites and available devices count in Cisco DNA Center appears in the **Available** section under Devices in **Usage details**.

The **Prime Infrastructure Location Groups** pane lists all the Cisco Prime Infrastructure groups irrespective of any virtual domain.

Note
Cisco Prime Infrastructure does not migrate devices assigned in a "Campus" to the Cisco DNA Center, when the co-existence tool is used.

As a workaround, you can assign your devices to a "Building" or "Floor" type location group before using the co-existence tool.

Note
Devices assigned in the Location groups with 'Default' Group type are not migrated to Cisco DNA Center.

To create sites directly in Cisco DNA Center so that you can move your sites from Prime Infrastructure to Cisco DNA Center, click **DNAC Site Builder**.

In the **DNAC Site Builder** window, if you select the **Area** radio button, enter the following information:

- **Site Name**: Site name that you can create in Cisco DNA Center.
- **Parent Site**: Cisco DNA Center parent under which you can create the site.

In the **DNAC Site Builder** window, if you select the **Building** radio button to create a building in the Cisco DNA Center Area, enter the following information:

- **Site Name**: Building name that you can create in Cisco DNA Center.
- **Parent Site**: Cisco DNA Center parent under which you can create the building.
- **Civic Location**: Enter the civic location details under which you want to create the building.
- **GPS (Latitude/Longitude)**: These co-ordinates are auto-populated.

Click **Add** to create a site or building in Cisco DNA Center.

Step 11 Click **Next**.

Step 12 In the **ISE & CMX Credentials** window:

a) Click the **ISE** tab to view the ISE server details that are present in Prime Infrastructure such as:

- Server Status
- Server IP
- Port
- Server Name
- Username
- Shared Secret: You must ensure that this shared secret field is not empty.
- Timeout: This value must not exceed 20.
- Retries

If no ISE server is present in Prime Infrastructure, a **No data available** message appears.

b) Click the **CMX** tab to can view the list of associated CMX servers for selected groups with the following details:

- Credential Status
- Server IP address
- Device Name
- Username
- Password
- SSH Username

- SSH Password

You must update the **SSH Username** and **SSH Password**, if it is not available for the respective CMX.

If the associated CMX is not found, then click **Next**

Note
When the Cisco Prime Infrastructure – Cisco DNA Center migration tool is active and auto sync is enabled, then CMX will be dynamically pushed to Cisco DNA Center floor groups. Cisco DNA Center will there by track the location data for assigned groups.

Step 13 If you check the **Migrate User Defined CLI Templates** check box in the **Sync Settings** page, then a new page **Select CLI Templates** appears after the CMX page.

Step 14 In the **Select CLI Templates** window:

a) Non-Migrated templates list all the available CLI or Composite User Defined Templates available in Prime Infrastructure. You can select the templates need to be migrated to Cisco DNA Center.

b) Migrated templates list all the migrated templates available in Cisco DNA Center. You can either update or delete these templates.

Note
By default all the rows are selected. Selected templates from the list are updated and the deselected templates are deleted from Cisco DNA Center.

Step 15 Click **Next**.

Step 16 In the **Summary** window:

a) You can view the overall summary of selected location groups, devices, associated maps, user-defined templates, CMX sesrvers, and ISE servers before migrating to the Cisco DNA Center.

b) Click the **CLI templates** tab to view the selected CLI templates listed here. Based on the device selection in the groups you can Add/Update or Delete the CLI/Composite user defined Templates in Cisco DNA Center.

c) In the **Sync Settings** tab, you can view the summary of the sync status.

Step 17 Click **Force Sync** to push data to the Cisco DNA Center server after the first migration.

A confirmation message appears **DNAC data will be overwritten by PI data by the Force Sync**. Click **Yes** to proceed or **No** to stop Force Sync.

A success message appears after the successful completion of the Force Sync operation.

What to do next

1. If you want to revert the site hierarchy in Cisco DNA Center, uncheck the migrated groups in the Prime Data Migration tool and click **Force Sync**. This step deletes the migrated groups in Cisco DNA Center.

   If you want to revert the device assignment (devices will be unassigned from Cisco DNA Center sites and assigned to migrated groups if the same devices are present both in Cisco Prime Infrastructure groups and Cisco DNA Center sites), perform the following steps:

   - Uncheck the migrated groups in the Prime Data Migration tool and click **Force Sync**. This step deletes the migrated groups and devices in Cisco DNA Center.
   - Add and assign or provision the devices in Cisco DNA Center in the required sites.

The pre-migration site hierarchy appears in Cisco DNA Center.

To migrate your Cisco Prime Infrastructure data again using the Prime Data Migration Tool , unassign the devices in Cisco Prime Infrastructure for the required groups and migrate the data.

2. Multi-DNAC is supported from Prime Data Migration Tool Update 02.0. This feature allows you to migrate to multiple DNAC clusters (one DNAC server at a time) and retain the migration data for each DNAC server. For more information, see Multi-DNAC Support.
3. Refer the important notes about Cisco Prime Infrastructure - Cisco DNA Center migration, see Important Notes, on page 104.

Important Notes

This section contains important notes about Cisco Prime Infrastructure - Cisco DNA Center migration:

- You can integrate only one Cisco DNA Center server at a time.
- Groups with empty/0/null civic location values will be ignored for migration.
- When migrating ISE from Prime to DNA Center, ISE gets added to DNA Center in the failed state. To avoid this make sure to do the following:
  - Activate PXGrid on ISE
  - Enable ERS on ISE
  - ISE's CLI and GUI password must be the same
- To connect with cisco.com, with respect to SWIM and Software Update, you must install PI_3_9_1_Security_Update_01 UBF along with PI 3.9.x Prime Data Migration Tool Update 03 UBF or PI_3_8_1_Security_Update_01 UBF along with PI 3.8.x Prime Data Migration Tool Update 03 UBF.
- You use a single session of the migration at a time for the same Cisco Prime Infrastructure server and Cisco DNA Center server pair.
- Once the CMX is migrated to Cisco DNA Center, it will not be managed by Cisco Prime Infrastructure.
- Cisco DNA Center will not migrate the location and civic data of any building which has no floor.
- Any legacy devices which are not supported by Cisco DNA Center chosen for migration will be added to Cisco DNA Center inventory under Device Type column -“Unsupported Cisco Device”.
- Devices managed with SNMP v2 and v3 can be migrated to Cisco DNA Center.
- Any devices managed only with SNMP v1 or SNMP v3 with DES protocol of AuthPriv credentials in Cisco Prime Infrastructure cannot be migrated to Cisco DNA Center.
- Also, bulk migration fails if any one of the devices managed by SNMP v1 or v3 with DES protocol of AuthPriv credentials.
- Only the basic information of the groups will be migrated, but not the rules and profiles assigned to group.
- After integration, while upgrading Cisco DNA Center to an unsupported version, error will be thrown as “Unsupported Version” and migration will stop.

- Access Points positioned in the maps in Cisco Prime Infrastructure will migrate to Cisco DNA Center, only if we manage its WLC devices with CLI Credentials.
- For Composite template Migration - The associated template should not be System template. If any composite template with system template will not get migrated.
- During composite template migration all the associated template in composite template should be having the same device type. Otherwise migration will fail.
- Specific composite templates migration is not recommended till Cisco DNA Center 1.3.3.8 and 2.1.1.3. However it works in later DNA Center versions.
- DNA Center Version 2.2.1.0 specific update.
- Civic location is mandatory for Location Groups / Site groups migration especially from Cisco DNA Center 2.2.1.0 version.

Open Caveats for Prime Data Migration Tool Update 03

The following table lists the open caveats in Prime Data Migration Tool Update 03.

Table 18: Open Caveats

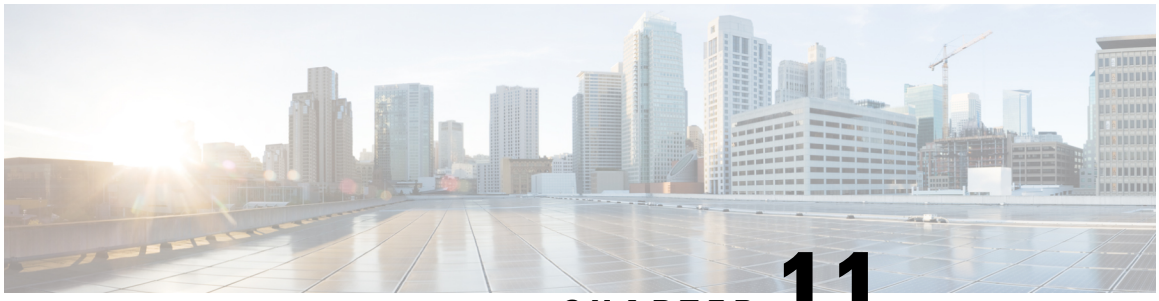
Identifier	Description
CSCwb52176	Error popup appears when you launch the Prime Data Migration Tool for the first time.
CSCwb94880	Change the 'Delete' tab in Select Groups page according to the action performed.

Resolved Caveats for Prime Data Migration Tool Update 03

The following table lists the resolved caveats in Prime Data Migration Tool Update 03.

Table 19: Resolved Caveats

Identifier	Description
CSCwa42025	Unactionable toaster message when Cisco DNA Center TOFU cert check fails



CHAPTER 11

Migrate Cisco Prime Infrastructure Data to Cisco DNA Center Using Prime Data Migration Tool Update 02.01

This chapter provides information on migrating data and important points related to migrating Cisco Prime Infrastructure to Cicso DNA Center using the Prime Data Migration Tool Update 02.01.

- Prerequisites for Using Prime Data Migration Tool Update 02.01, on page 107
- Migrating Data from Cisco Prime Infrastructure to Cisco DNA Center using Prime Data Migration Tool Update 02.01, on page 108
- Open Caveat for Prime Data Migration Tool Update 02.01, on page 113

Prerequisites for Using Prime Data Migration Tool Update 02.01

This section lists the prerequisites for using the Prime Data Migration Tool Update 02.01.

Before you use the Prime Data Migration Tool, you must ensure that you run the Cisco DNA Center AURA command line tool. The AURA tool performs a variety of health, scale and upgrade readiness checks for the Cisco DNA Center and the rest of the Fabric network. AURA ensures that Cisco DNA Center and its component services are all healthy and available before you start a migration.

For more information on using Cisco DNA Center AURA tool, see Enhanced Visibility into the Cisco DNA Center using AURA.

Prerequisites for Using PI 3.9.x Prime Data Migration Tool Update 02.01

Ensure that:

- You install Cisco Prime Infrastructure 3.9.1 or PI 3.9 + PI 3.9 Oracle Patch + PI 3.9.1 on upgrade, or PI 3.9.x Prime Data Migration Tool Update 02.

  If you need support for Catalyst 9800 16.12.x version, you will need to install **PI_3_9_Oct_Oracle_patch-1.0.8.ubf** patch before you install PI 3.9.1. For instructions to install the Oracle Patch, see Installing Cisco Prime Infrastructure System Patch 3.9 section in the Cisco Prime Infrastructure 3.9 Administrator Guide

- You have Root or Super Users access privileges of Cisco Prime Infrastructure.

- You have access credentials of Cisco DNA Center.
- Refer the Cisco Prime Infrastructure and Cisco Catalyst Center Compatibility Matrix, on page 1.

Prerequisites for Using PI 3.8.x Prime Data Migration Tool Update 02.01

Ensure that:

- You install Cisco Prime Infrastructure 3.8.1 update 01 or PI 3.8.x Prime Data Migration Tool Update 01 or PI 3.8.x Prime Data Migration Tool Hotfix, or PI 3.8.x Prime Data Migration Tool Update 02.
- You have Root or Super Users access privileges of Cisco Prime Infrastructure.
- You have access credentials of Cisco DNA Center.
- Refer the Cisco Prime Infrastructure and Cisco Catalyst Center Compatibility Matrix, on page 1.

Prerequisites for Using PI 3.7.x Prime Data Migration Tool Update 02.01

Ensure that:

- You install Cisco Prime Infrastructure 3.7.1 update 05 or PI 3.7.x Prime Data Migration Tool Update 01, or PI 3.7.x Prime Data Migration Tool Update 02.
- You have Root or Super Users access privileges of Cisco Prime Infrastructure.
- You have access credentials of Cisco DNA Center.
- Refer the Cisco Prime Infrastructure and Cisco Catalyst Center Compatibility Matrix, on page 1.

Migrating Data from Cisco Prime Infrastructure to Cisco DNA Center using Prime Data Migration Tool Update 02.01

This section helps you to migrate your Cisco Prime Infrastructure data from:

- PI 3.9.1, PI 3.9.x Prime Data Migration Tool Update 02 to Cisco DNA Center using PI 3.9.x Prime Data Migration Tool Update 02.01.
- PI 3.8.1 update 01, PI 3.8.x Prime Data Migration Tool Update 01, PI 3.8.x Prime DataMigration Tool Hotfix, PI 3.8.x Prime Data Migration Tool Update 02 to Cisco DNA Center using PI 3.8.x Prime Data Migration Tool Update 02.01.
- PI 3.7.1 update 05 , PI 3.7.x Prime Data Migration Tool Update 01, PI 3.7.x Prime Data Migration Tool Update 02 to Cisco DNA Center using PI 3.7.x Prime Data Migration Tool Update 02.01.

Follow this procedure to access the Cisco Prime Infrastructure to Cisco DNA Center migration by logging in to Cisco Prime Infrastructure:

Procedure

Step 1 Choose **Administration** > **Settings** > **System Settings** > **General** > **Cisco DNA Center coexistence**, and then click **Launch Cisco DNA Center coexistence** to open **Prime Infrastructure - Cisco DNA Center Coexistence** page.

For 3.9.1, you can either:

Click **Cisco DNA Center coexistence** in the **Mega Menu** page.

Or

Launch Cisco DNA Center coexistence from the Getting Started page. Choose **Settings** > **Getting Started** > **Cisco DNA Center coexistence**, and then click **Launch Cisco DNA Center coexistence** to open **Prime Infrastructure - Cisco DNA Center Coexistence** page.

Step 2 Click **Add Cisco DNA Center** Server.

Step 3 Enter the following Cisco DNA Center server details:

a) Server IP Address or Hostname.
b) Username
c) Password
d) Confirm Password

Note
You can integrate only one Cisco DNA Center server at a time.

Step 4 Click **Save**, to check server reachability.

Step 5 Click **Next** to go to **Sync Settings**.

Step 6 In the **Sync Settings** window:

a) You can check for the Supported/Available Limits of the Cisco DNA Center server for the **Site Groups/Site Maps** and **Devices**. Supported/Available Limits of Cisco DNA Center will vary based on the Cisco DNA Center server core(s) count.

The Supported/Available limits are specified in the below table:

Table 20: Supported/Available Limits

DNAC Core	Site Groups/Site Maps	Devices	Templates
44-Core	500	1000	1000
56-Core	1000	4000	1000
112-Core	2000	5000	1000

b) Select the **Enables automatic synchronization of data integrated with Cisco DNA Center** check box to synchronize already migrated data set for the groups and devices from Prime Infrastructure to Cisco DNA Center automatically post modification.
c) Select the **Include newly added data during dynamic synchronization** checkbox to move newly created groups and newly added devices during dynamic synchronization if any, from Prime Infrastructure to Cisco DNA Center automatically post addition.

Note
Dynamic Synchronization does not support add, update or delete operations for the already migrated data and will not synchronize the data automatically for the following components:

- Maps
- CLI Templates
- ISE Server

Maps, CLI templates, and ISE server migration is achieved only by Force Sync.

- This check box is enabled only if you select the **Enables automatic synchronization of data integrated with Cisco DNA Center** check box.
- During force synchronization, if the **Enables automatic synchronization of data integrated with Cisco DNA Center** check box is enabled, any modifications that are made through force synchronization to the Location Group and Devices entities are dynamically synced in Cisco DNA Center.
- If the **Enables automatic synchronization of data integrated with Cisco DNA Center** check box is selected, CMX is dynamically assigned to Cisco DNA Center floor groups, when Cisco Prime Infrastructure imports maps to CMX. (Pre Req.: CMX dynamic sync works only on already migrated floor groups and CMX should exist in Cisco DNA Center server for CMX dynamic sync.)

d) If you select the **Enable CMX settings** check box, CMX will be pushed with floor groups. If you do not select the **Enable CMX settings** check box, CMX data will not be pushed to the Cisco DNA Center server.
e) If you select the **Enable ISE settings** check box, ISE server details will be pushed. If you do not select the **Enable ISE settings** check box, ISE data will not be pushed to the Cisco DNA Center server.
f) Select the **Migrate User Defined CLI Templates** check box to migrate the user defined CLI and/or Composite Templates to Cisco DNA Center.

Step 7 Click **Next** to go to the **Select Groups** page.

Step 8 In the **Select Groups** window:

Expand the **Usage Details** section to view a summary of the site and device count details such as **Recommended**, **Selected for Migration**, and **Available**.

a) If you want to move an entire group hierarchy to Cisco DNA Center, check the **Replicate Parent Hierarchy** check box and select the location groups from the **Prime Infrastructure Location Groups** pane.

By default, when you select Site Groups, the buildings, floors, and associated maps are also selected.

Click **Select DNAC Parent** below the **Prime Infrastructure Location Groups** pane to open the **Cisco DNA Center Site Groups** window.

Marked for Deletion label appears when you unselect an already migrated group.

Select **Global** from the **Cisco DNA Center Site Groups** pane under which you want to move the PI groups and click **OK**. The selected groups will be added in the **Group Movement Log** pane with the label as **Marked for Migration**.

b) If you want to move only a building or a floor to Cisco DNA Center under a different campus or area, click **Select DNAC Parent** below the **Prime Infrastructure Location Groups** pane to open the **Cisco DNA Center Site Groups** window.

Select a campus or an area from **Cisco DNA Center Site Groups** under which you need to move the building and select a building from Cisco DNA Center Site Groups under which you need to move the floor and click **OK**. The selected groups will be added in the **Group Movement Log** pane with the label as **Marked for Migration**.

If you click the **Close** or **Cancel** buttons in the **Cisco DNA Center Site Groups** window, the window closes without selecting any groups for migration and the **Group Movement Log** pane is not updated with the selected groups.

After you move the groups from Prime Infrastructure to Cisco DNA Center, **Marked for Migration** label appears on the moved groups.

Already migrated groups from Prime Infrastructure to Cisco DNA Center appear with the label as **Migrated** in the **Prime Infrastructure Location Groups** pane as well as the **Group Movement Log** pane.

The count of selected groups for migration appears as **Selected for Migration** under Sites. The count of selected devices for migration appears as **Selected for Migration** under Devices in **Usage details**.

Available groups count in Cisco DNA Center appears in the **Available** section under Sites and available devices count in Cisco DNA Center appears in the **Available** section under Devices in **Usage details**.

The **Prime Infrastructure Location Groups** pane lists all the Cisco Prime Infrastructure groups irrespective of any virtual domain.

Note
Cisco Prime Infrastructure does not migrate devices assigned in a "Campus" to the Cisco DNA Center, when the co-existence tool is used.

As a workaround, you can assign your devices to a "Building" or "Floor" type location group before using the co-existence tool.

Note
Devices assigned in the Location groups with 'Default' Group type are not migrated to Cisco DNA Center.

To create sites directly in Cisco DNA Center so that you can move your sites from Prime Infrastructure to Cisco DNA Center, click **DNAC Site Builder**.

In the **DNAC Site Builder** window, if you select the **Area** radio button, enter the following information:

- **Site Name**: Site name that you can create in Cisco DNA Center.
- **Parent Site**: Cisco DNA Center parent under which you can create the site.

In the **DNAC Site Builder** window, if you select the **Building** radio button to create a building in the Cisco DNA Center Area, enter the following information:

- **Site Name**: Building name that you can create in Cisco DNA Center.
- **Parent Site**: Cisco DNA Center parent under which you can create the building.
- **Civic Location**: Enter the civic location details under which you want to create the building.
- **GPS (Latitude/Longitude)**: These co-ordinates are auto-populated.

Click **Add** to create a site or building in Cisco DNA Center.

Step 9 Click **Next**.

Step 10 In the **ISE & CMX Credentials** window:

a) Click the **ISE** tab to view the ISE server details that are present in Prime Infrastructure such as:

- Server Status
- Server IP
- Port
- Server Name
- Username
- Shared Secret: You must ensure that this shared secret field is not empty.
- Timeout: This value must not exceed 20.
- Retries

If no ISE server is present in Prime Infrastructure, a **No data available** message appears.

b) Click the **CMX** tab to can view the list of associated CMX servers for selected groups with the following details:

- Credential Status
- Server IP address
- Device Name
- Username
- Password
- SSH Username
- SSH Password

You must update the **SSH Username** and **SSH Password**, if it is not available for the respective CMX.

If the associated CMX is not found, then click **Next**

Note
When the Cisco Prime Infrastructure – Cisco DNA Center migration tool is active and auto sync is enabled, then CMX will be dynamically pushed to Cisco DNA Center floor groups. Cisco DNA Center will there by track the location data for assigned groups.

Step 11 If you check the **Migrate User Defined CLI Templates** check box in the **Sync Settings** page, then a new page **Select CLI Templates** appears after the CMX page.

Step 12 In the **Select CLI Templates** window:

a) Non-Migrated templates list all the applicable user defined CLI and, or , or both Composite templates for the device types in the selected groups for migration to Cisco DNA Center.

b) Migrated templates list all the migrated templates available in Cisco DNA Center. You can either update or delete these templates.

Note
By default all the rows are selected. Selected templates from the list are updated and the deselected templates are deleted from Cisco DNA Center.

Step 13 Click **Next**.

Step 14 In the **Summary** window:

a) You can view the overall summary of selected location groups, devices, associated maps, user-defined templates, CMX sesrvers, and ISE servers before migrating to the Cisco DNA Center.
b) You can also view the groups, devices, maps, ISE, and CMX that are added, updated and deleted under each respective tab.
c) Click the **CLI templates** tab to view the selected CLI templates listed here. Based on the device selection in the groups you can Add/Update or Delete the CLI/Composite user defined Templates in Cisco DNA Center.
d) In the **Sync Settings** tab, you can view the summary of the sync status.

Step 15 Click **Force Sync** to push data to the Cisco DNA Center server after the first migration.

A confirmation message appears **DNAC data will be overwritten by PI data by the Force Sync**. Click **Yes** to proceed or **No** to stop Force Sync.

A success message appears after the successful completion of the Force Sync operation.

What to do next

1. If you want to revert the site hierarchy in Cisco DNA Center, uncheck the migrated groups in the Prime Data Migration tool and click **Force Sync**. This step deletes the migrated groups in Cisco DNA Center.

   If you want to revert the device assignment (devices will be unassigned from Cisco DNA Center sites and assigned to migrated groups if the same devices are present both in Cisco Prime Infrastructure groups and Cisco DNA Center sites), perform the following steps:

   - Uncheck the migrated groups in the Prime Data Migration tool and click **Force Sync**. This step deletes the migrated groups and devices in Cisco DNA Center.
   - Add and assign or provision the devices in Cisco DNA Center in the required sites.

   The pre-migration site hierarchy appears in Cisco DNA Center.

   To migrate your Cisco Prime Infrastructure data again using the Prime Data Migration Tool Update 02.01, unassign the devices in Cisco Prime Infrastructure for the required groups and migrate the data.

2. Multi-DNAC is supported from Prime Data Migration Tool Update 02.0. This feature allows you to migrate to multiple DNAC clusters (one DNAC server at a time) and retain the migration data for each DNAC server. For more information, see Multi-DNAC Support.

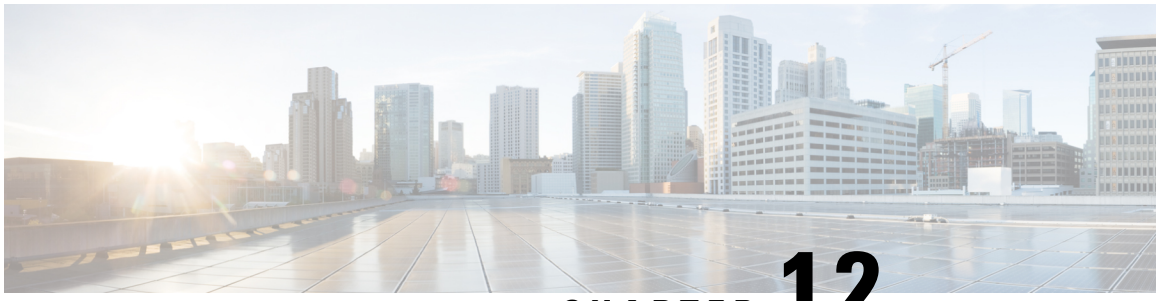
3. Refer the important notes about Cisco Prime Infrastructure - Cisco DNA Center migration at Important Notes.

Open Caveat for Prime Data Migration Tool Update 02.01

The following table lists the open caveat in Prime Data Migration Tool Update 02.01.

Table 21: Open Caveat

Identifier	Description
CSCwa42025	Unactionable toaster message appears when Cisco DNA Center TOFU certificate check fails.



CHAPTER 12

Migrate Cisco Prime Infrastructure Data to Cisco DNA Center Using Prime Data Migration Tool Update 02

This chapter provides information on migrating data and important points related to migrating Cisco Prime Infrastructure to Cicso DNA Center using the Prime Data Migration Tool Update 02.

- Prerequisites for Using Prime Data Migration Tool Update 02, on page 115
- Migrating Data from Cisco Prime Infrastructure to Cisco DNA Center using Prime Data Migration Tool Update 02, on page 116
- Multi-DNAC Support, on page 121
- Important Notes, on page 122
- Open Caveats for Prime Data Migration Tool Update 02, on page 123

Prerequisites for Using Prime Data Migration Tool Update 02

This section lists the prerequisites for using the Prime Data Migration Tool Update 02 in PI 3.8.x Prime Data Migration Tool Update 02.

Before you use the Prime Data Migration Tool, you must ensure that you run the Cisco DNA Center AURA command line tool. The AURA tool performs a variety of health, scale and upgrade readiness checks for the Cisco DNA Center and the rest of the Fabric network. AURA ensures that Cisco DNA Center and its component services are all healthy and available before you start a migration.

For more information on using Cisco DNA Center AURA tool, see Enhanced Visibility into the Cisco DNA Center using AURA.

Prerequisites for Using PI 3.9.x Prime Data Migration Tool Update 02

Ensure that:

- You install Cisco Prime Infrastructure PI 3.9.1 or PI 3.9 + PI 3.9 Oracle Patch + PI 3.9.1 on upgrade .If you need support for Catalyst 9800 16.12.x version, you will need to install **PI_3_9_Oct_Oracle_patch-1.0.8.ubf** patch before you install PI 3.9.1. For instructions to install the Oracle Patch, see Installing Cisco Prime Infrastructure System Patch 3.9 section in the Cisco Prime Infrastructure 3.9 Administrator Guide.

- You have Root or Super Users access privileges of Cisco Prime Infrastructure.
- You have access credentials of Cisco DNA Center.
- Refer the Cisco Prime Infrastructure and Cisco Catalyst Center Compatibility Matrix, on page 1.

Prerequisites for Using PI 3.8.x Prime Data Migration Tool Update 02

Ensure that:

- You install Cisco Prime Infrastructure 3.8.1 update 01 or PI 3.8.x Prime Data Migration Tool Update 01 or PI 3.8.x Prime Data Migration Tool Hotfix.
- You have Root or Super Users access privileges of Cisco Prime Infrastructure.
- You have access credentials of Cisco DNA Center.
- Refer the Cisco Prime Infrastructure and Cisco Catalyst Center Compatibility Matrix, on page 1.

Prerequisites for Using PI 3.7.x Prime Data Migration Tool Update 02

Ensure that:

- You install Cisco Prime Infrastructure 3.7.1 update 05 or PI 3.7.x Prime Data Migration Tool Update 01.
- You have Root or Super Users access privileges of Cisco Prime Infrastructure.
- You have access credentials of Cisco DNA Center.
- Refer the Cisco Prime Infrastructure and Cisco Catalyst Center Compatibility Matrix, on page 1.

Migrating Data from Cisco Prime Infrastructure to Cisco DNA Center using Prime Data Migration Tool Update 02

This section helps you to migrate your Cisco Prime Infrastructure data from:

- PI 3.9.1 to Cisco DNA Center using PI 3.9.x Prime Data Migration Tool Update 02.
- PI 3.8.1 update 01, PI 3.8.x Prime Data Migration Tool Update 01, PI 3.8.x Prime DataMigration Tool Hotfix to Cisco DNA Center using PI 3.8.x Prime Data Migration Tool Update 02.
- PI 3.7.1 update 05 , PI 3.7.x Prime Data Migration Tool Update 01 to Cisco DNA Center using PI 3.7.x Prime Data Migration Tool Update 02.

Follow this procedure to access the Cisco Prime Infrastructure to Cisco DNA Center migration by logging in to Cisco Prime Infrastructure:

Procedure

Step 1 Choose **Administration** > **Settings** > **System Settings** > **General** > **Cisco DNA Center coexistence**, and then click **Launch Cisco DNA Center coexistence** to open **Prime Infrastructure - Cisco DNA Center Coexistence** page.

For 3.9.1, you can either:

Click **Cisco DNA Center coexistence** in the **Mega Menu** page.

Or

Launch Cisco DNA Center coexistence from the Getting Started page. Choose **Settings** > **Getting Started** > **Cisco DNA Center coexistence**, and then click **Launch Cisco DNA Center coexistence** to open **Prime Infrastructure - Cisco DNA Center Coexistence** page.

Step 2 Click **Add Cisco DNA Center** Server.

Step 3 Enter the following Cisco DNA Center server details:

a) Server IP Address or Hostname.
b) Username
c) Password
d) Confirm Password

Note
You can integrate only one Cisco DNA Center server at a time.

Step 4 Click **Save**, to check server reachability.

Step 5 Click **Next** to go to **Sync Settings**.

Step 6 In the **Sync Settings** window:

a) You can check for the Supported/Available Limits of the Cisco DNA Center server for the **Site Groups/Site Maps** and **Devices**. Supported/Available Limits of Cisco DNA Center will vary based on the Cisco DNA Center server core(s) count.

The Supported/Available limits are specified in the below table:

Table 22: Supported/Available Limits

DNAC Core	Site Groups/Site Maps	Devices	Templates
44-Core	500	1000	1000
56-Core	1000	4000	1000
112-Core	2000	5000	1000

b) Select the **Enables automatic synchronization of data integrated with Cisco DNA Center** check box to synchronize already migrated data set for the groups and devices from Prime Infrastructure to Cisco DNA Center automatically post modification.
c) Select the **Include newly added data during dynamic synchronization** checkbox to move newly created groups and newly added devices during dynamic synchronization if any, from Prime Infrastructure to Cisco DNA Center automatically post addition.

Note
Dynamic Synchronization does not support add, update or delete operations for the already migrated data and will not synchronize the data automatically for the following components:

- Maps
- CLI Templates
- ISE Server

Maps, CLI templates, and ISE server migration is achieved only by Force Sync.

- This check box is enabled only if you select the **Enables automatic synchronization of data integrated with Cisco DNA Center** check box.
- During force synchronization, if the **Enables automatic synchronization of data integrated with Cisco DNA Center** check box is enabled, any modifications that are made through force synchronization to the Location Group and Devices entities are dynamically synced in Cisco DNA Center.
- If the **Enables automatic synchronization of data integrated with Cisco DNA Center** check box is selected, CMX is dynamically assigned to Cisco DNA Center floor groups, when Cisco Prime Infrastructure imports maps to CMX. (Pre Req.: CMX dynamic sync works only on already migrated floor groups and CMX should exist in Cisco DNA Center server for CMX dynamic sync.)

d) If you select the **Enable CMX settings** check box, CMX will be pushed with floor groups. If you do not select the **Enable CMX settings** check box, CMX data will not be pushed to the Cisco DNA Center server.
e) If you select the **Enable ISE settings** check box, ISE server details will be pushed. If you do not select the **Enable ISE settings** check box, ISE data will not be pushed to the Cisco DNA Center server.
f) Select the **Migrate User Defined CLI Templates** check box to migrate the user defined CLI and/or Composite Templates to Cisco DNA Center.

Step 7 Click **Next** to go to the **Select Groups** page.

Step 8 In the **Select Groups** window:

Expand the **Usage Details** section to view a summary of the site and device count details such as **Recommended**, **Selected for Migration**, and **Available**.

a) If you want to move an entire group hierarchy to Cisco DNA Center, check the **Replicate Parent Hierarchy** check box and select the location groups from the **Prime Infrastructure Location Groups** pane.

By default, when you select Site Groups, the buildings, floors, and associated maps are also selected.

Click **Select DNAC Parent** below the **Prime Infrastructure Location Groups** pane to open the **Cisco DNA Center Site Groups** window.

Marked for Deletion label appears when you unselect an already migrated group.

Select **Global** from the **Cisco DNA Center Site Groups** pane under which you want to move the PI groups and click **OK**. The selected groups will be added in the **Group Movement Log** pane with the label as **Marked for Migration**.

b) If you want to move only a building or a floor to Cisco DNA Center under a different campus or area, click **Select DNAC Parent** below the **Prime Infrastructure Location Groups** pane to open the **Cisco DNA Center Site Groups** window.

Select a campus or an area from **Cisco DNA Center Site Groups** under which you need to move the building and select a building from Cisco DNA Center Site Groups under which you need to move the floor and click **OK**. The selected groups will be added in the **Group Movement Log** pane with the label as **Marked for Migration**.

If you click the **Close** or **Cancel** buttons in the **Cisco DNA Center Site Groups** window, the window closes without selecting any groups for migration and the **Group Movement Log** pane is not updated with the selected groups.

After you move the groups from Prime Infrastructure to Cisco DNA Center, **Marked for Migration** label appears on the moved groups.

Already migrated groups from Prime Infrastructure to Cisco DNA Center appear with the label as **Migrated** in the **Prime Infrastructure Location Groups** pane as well as the **Group Movement Log** pane.

The count of selected groups for migration appears as **Selected for Migration** under Sites. The count of selected devices for migration appears as **Selected for Migration** under Devices in **Usage details**.

Available groups count in Cisco DNA Center appears in the **Available** section under Sites and available devices count in Cisco DNA Center appears in the **Available** section under Devices in **Usage details**.

The **Prime Infrastructure Location Groups** pane lists all the Cisco Prime Infrastructure groups irrespective of any virtual domain.

Note
Cisco Prime Infrastructure does not migrate devices assigned in a "Campus" to the Cisco DNA Center, when the co-existence tool is used.

As a workaround, you can assign your devices to a "Building" or "Floor" type location group before using the co-existence tool.

Note
Devices assigned in the Location groups with 'Default' Group type are not migrated to Cisco DNA Center.

To create sites directly in Cisco DNA Center so that you can move your sites from Prime Infrastructure to Cisco DNA Center, click **DNAC Site Builder**.

In the **DNAC Site Builder** window, if you select the **Area** radio button, enter the following information:

- **Site Name**: Site name that you can create in Cisco DNA Center.
- **Parent Site**: Cisco DNA Center parent under which you can create the site.

In the **DNAC Site Builder** window, if you select the **Building** radio button to create a building in the Cisco DNA Center Area, enter the following information:

- **Site Name**: Building name that you can create in Cisco DNA Center.
- **Parent Site**: Cisco DNA Center parent under which you can create the building.
- **Civic Location**: Enter the civic location details under which you want to create the building.
- **GPS (Latitude/Longitude)**: These co-ordinates are auto-populated.

Click **Add** to create a site or building in Cisco DNA Center.

Step 9 Click **Next**.

Step 10 In the **ISE & CMX Credentials** window:

a) Click the **ISE** tab to view the ISE server details that are present in Prime Infrastructure such as:

- Server Status
- Server IP
- Port
- Server Name
- Username
- Shared Secret: You must ensure that this shared secret field is not empty.
- Timeout: This value must not exceed 20.
- Retries

If no ISE server is present in Prime Infrastructure, a **No data available** message appears.

b) Click the **CMX** tab to can view the list of associated CMX servers for selected groups with the following details:

- Credential Status
- Server IP address
- Device Name
- Username
- Password
- SSH Username
- SSH Password

You must update the **SSH Username** and **SSH Password**, if it is not available for the respective CMX.

If the associated CMX is not found, then click **Next**

Note
When the Cisco Prime Infrastructure – Cisco DNA Center migration tool is active and auto sync is enabled, then CMX will be dynamically pushed to Cisco DNA Center floor groups. Cisco DNA Center will there by track the location data for assigned groups.

Step 11 If you check the **Migrate User Defined CLI Templates** check box in the **Sync Settings** page, then a new page **Select CLI Templates** appears after the CMX page.

Step 12 In the **Select CLI Templates** window:

a) Non-Migrated templates list all the applicable user defined CLI and, or , or both Composite templates for the device types in the selected groups for migration to Cisco DNA Center.

b) Migrated templates list all the migrated templates available in Cisco DNA Center. You can either update or delete these templates.

Note
By default all the rows are selected. Selected templates from the list are updated and the deselected templates are deleted from Cisco DNA Center.

Step 13 Click **Next**.

Step 14 In the **Summary** window:

a) You can view the overall summary of selected location groups, devices, associated maps, user-defined templates, CMX sesrvers, and ISE servers before migrating to the Cisco DNA Center.
b) You can also view the groups, devices, maps, ISE, and CMX that are added, updated and deleted under each respective tab.
c) Click the **CLI templates** tab to view the selected CLI templates listed here. Based on the device selection in the groups you can Add/Update or Delete the CLI/Composite user defined Templates in Cisco DNA Center.
d) In the **Sync Settings** tab, you can view the summary of the sync status.

Step 15 Click **Force Sync** to push data to the Cisco DNA Center server after the first migration.

A confirmation message appears **DNAC data will be overwritten by PI data by the Force Sync**. Click **Yes** to proceed or **No** to stop Force Sync.

A success message appears after the successful completion of the Force Sync operation.

What to do next

1. If you want to revert the site hierarchy in Cisco DNA Center, uncheck the migrated groups in the Prime Data Migration tool and click **Force Sync**. This step deletes the migrated groups in Cisco DNA Center.

   If you want to revert the device assignment (devices will be unassigned from Cisco DNA Center sites and assigned to migrated groups if the same devices are present both in Cisco Prime Infrastructure groups and Cisco DNA Center sites), perform the following steps:

   - Uncheck the migrated groups in the Prime Data Migration tool and click **Force Sync**. This step deletes the migrated groups and devices in Cisco DNA Center.
   - Add and assign or provision the devices in Cisco DNA Center in the required sites.

   The pre-migration site hierarchy appears in Cisco DNA Center.

   To migrate your Cisco Prime Infrastructure data again using the Prime Data Migration Tool Update 02, unassign the devices in Cisco Prime Infrastructure for the required groups and migrate the data.

2. Prime Data Migration Tool Update 02 provides support for Multi-DNAC support. This feature allows you to migrate to multiple DNAC clusters (one DNAC server at a time) and retain the migration data for each DNAC server. For more information, see Multi-DNAC Support.

Multi-DNAC Support

In earlier releases, you can only integrate one Cisco DNA Center server with one Cisco Prime Infrastructure server.

Multi-DNAC support allows you to migrate to multiple Cisco DNA Center clusters (one Cisco DNA Center server at a time) and retain the migration data for each Cisco DNA Center server.

You can take backup of the migration data of a Cisco DNA Center server. These backup files are available at **/opt/CSCOlumos/multiDNAC** and contain information about migrated groups, site locations, templates, ISE server, and CMX server. You can restore the archive files anytime.

In Prime Infrastructure, you must use a script for the multi-DNAC support. To invoke the script, go to **/opt/CSCOlumos/bin** and execute the command: **. run_command.sh multi-dnac**.

The script provides the following options:

1. List available DNAC archives: Displays the list of archives available.
2. Backup the current paired DNAC server: Cisco DNA Center server that is in the migration tool and its details are backed up.
3. Backup current paired DNAC server and load DNAC archive: Current Cisco DNA Center server and its details are backed up and you are prompted to load any other available archive by entering the IP address.
4. Delete DNAC archives: Enter the IP address of the DNAC archive to delete its backup details.
5. Quit

The stored Cisco DNA Center archives are available with the Cisco DNA Center server's IP address as the prefix. The command allows one archive per Cisco DNA Center server and you can backup the data any number of times. The latest configuration overwrites with the existing archive. The maximum number of archives depends on the disk storage and there are no restrictions on the limit.

Note The backup files do not restore any sync settings. You can perform a backup only if force sync was done in the migration tool.

Important Notes

This section contains important notes about Cisco Prime Infrastructure - Cisco DNA Center migration:

- You can integrate only one Cisco DNA Center server at a time.
- When you remove the existing DNAC server and add it again, the Migrated label for all the DNAC migrated groups/sites is removed and the groups appear as non-migrated groups/sites, even though the groups/sites are migrated.
- Only CMX version 10.6.2 or above is supported for migration.
- Before you start the next migration, you must refresh the Prime Data Migration tool to display the accurate groups and site maps.
- For the first time ISE migration, ISE can be migrated only along with Sites and Groups, from the next migration onwards, you can migrate ISE alone.
- You use a single session of the migration at a time for the same Cisco Prime Infrastructure server and Cisco DNA Center server pair.
- Once the CMX is migrated to Cisco DNA Center, it will not be managed by Cisco Prime Infrastructure.
- Cisco DNA Center will not migrate the location and civic data of any building which has no floor.
- Any legacy devices that are not supported by Cisco DNA Center chosen for migration will be added to Cisco DNA Center inventory under Device Type column "Unsupported Cisco Device".
- Any devices managed only with SNMP V1 credentials in Cisco Prime Infrastructure cannot be migrated to Cisco DNA Center, whereas SNMP V2 and V3 can be migrated to Cisco DNA Center.

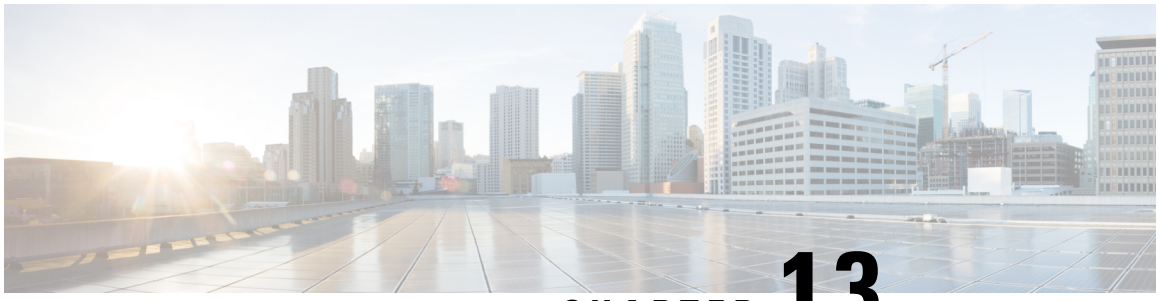
- Only the basic information of the groups will be migrated, but not the rules and profiles assigned to group.
- After integration, while upgrading Cisco DNA Center to an unsupported version, an `Unsupported Version` error appears and migration will stop.
- Access Points positioned in the maps in Cisco Prime Infrastructure will migrate to Cisco DNA Center, only if we manage its WLC devices with CLI Credentials.
- For Composite template Migration - The associated template should not be System template. If any composite template with system template will not get migrated.
- During composite template migration all the associated template in composite template should be having the same device type. Otherwise migration will fail.
- Specific composite templates migration is not recommended till Cisco DNA Center 1.3.3.8 and 2.1.1.3. However it works in later DNAC versions.
- DNAC Version 2.2.1.0 specific update:
  - Civic location is mandatory for Location Groups / Site groups migration especially for Cisco DNA Center 2.2.1.0 version.
  - If any one selected group does not have civic location configured, then all the selected Location Groups/Site groups migration will fail.

Open Caveats for Prime Data Migration Tool Update 02

The following table lists the open caveats in Prime Data Migration Tool Update 02.

Table 23: Open Caveats

Identifier	Description
CSCvz14104	Prime Infrastructure Data Migration Tool Update 02 fails to migrate maps if there is a validation error, such as duplicate AP names in any locations, including APs created by planning mode.
CSCvz39645	If a campus, building, floor, or location group's name has "/" in it, Prime Infrastructure Data Migration Tool Update 02 marks that group as invalid and blocks the migration activities.



CHAPTER 13

Migrate Cisco Prime Infrastructure Data to Cisco DNA Center Using Prime Data Migration Tool Update 01

This chapter provides information on migrating data and important points related to migrating Cisco Prime Infrastructure to Cicso DNA Center using the Prime Data Migration Tool Update 01.

- Prerequisites for Using Prime Data Migration Tool Update 01, on page 125
- Migrating Data from Cisco Prime Infrastructure to Cisco DNA Center using Prime Data Migration Tool Update 01, on page 127
- Important Notes, on page 130
- Open Caveats for Prime Data Migration Tool Update 01, on page 132

Prerequisites for Using Prime Data Migration Tool Update 01

This section lists the prerequisites for using the Prime Data Migration Tool Update 01 in 3.9.1 and for PI 3.8.x Prime Data Migration Tool Update 01 Hotfix, PI 3.7.x Prime Data Migration Tool Update 01, PI 3.6.x Prime Data Migration Tool Update 01, and PI 3.5.x Prime Data Migration Tool Update 01.

Before you use the Prime Data Migration Tool, you must ensure that you run the Cisco DNA Center AURA command line tool. The AURA tool performs a variety of health, scale and upgrade readiness checks for the Cisco DNA Center and the rest of the Fabric network. AURA ensures that Cisco DNA Center and its component services are all healthy and available before you start a migration.

For more information on using Cisco DNA Center AURA tool, see Enhanced Visibility into the Cisco DNA Center using AURA.

Prerequisites for Using Prime Data Migration Tool in 3.9.1

Ensure that:

- You install Cisco Prime Infrastructure PI 3.9 or PI 39 + PI 3.9 Oracle Patch on Upgrade or PI 3.9 Update01. If you need support for Catalyst 9800 16.12.x version, you will need to install **PI_3_9_Oct_Oracle_patch-1.0.8.ubf** patch before you install PI 3.9.1. For instructions to install the Oracle Patch,see Installing CiscoPrime InfrastructureSystem Patch 3.9 section in the Cisco Prime Infrastructure 3.9 Administrator Guide.

- You have Root or Super Users access privileges of Cisco Prime Infrastructure.
- You have access credentials of Cisco DNA Center.
- Refer the Cisco Prime Infrastructure and Cisco Catalyst Center Compatibility Matrix, on page 1.

Prerequisites for Using PI 3.8.x Prime Data Migration Tool Update 01 Hotfix

Ensure that:

- You install Cisco Prime Infrastructure 3.8.1 update 01 or PI 3.8.x Prime Data Migration Tool Update 01.
- You have Root or Super Users access privileges of Cisco Prime Infrastructure.
- You have access credentials of Cisco DNA Center.
- Refer the Cisco Prime Infrastructure and Cisco Catalyst Center Compatibility Matrix, on page 1.

Prerequisites for Using PI 3.7.x Prime Data Migration Tool Update 01

Ensure that:

- You install Cisco Prime Infrastructure 3.7.1 update 05.
- You have Root or Super Users access privileges of Cisco Prime Infrastructure.
- You have access credentials of Cisco DNA Center.
- Refer the Cisco Prime Infrastructure and Cisco Catalyst Center Compatibility Matrix, on page 1.

Prerequisites for Using PI 3.5.x Prime Data Migration Tool Update 01

Ensure that:

- You install Cisco Prime Infrastructure 3.5.1 update 03.
- You have Root or Super Users access privileges of Cisco Prime Infrastructure.
- You have access credentials of Cisco DNA Center.
- Refer the Cisco Prime Infrastructure and Cisco Catalyst Center Compatibility Matrix, on page 1.

Prerequisites for Using PI 3.6.x Prime Data Migration Tool Update 01

Ensure that:

- You install Cisco Prime Infrastructure 3.6 or 3.6 update 01 or 3.6 update 02 or 3.6 update 03 or 3.6 update 04.
- You have Root or Super Users access privileges of Cisco Prime Infrastructure.
- You have access credentials of Cisco DNA Center.

- Refer the Cisco Prime Infrastructure and Cisco Catalyst Center Compatibility Matrix, on page 1.

Migrating Data from Cisco Prime Infrastructure to Cisco DNA Center using Prime Data Migration Tool Update 01

This section helps you to migrate your Cisco Prime Infrastructure data from:

- 3.9.1 to Cisco DNA Center.
- 3.8.1 update 01 to Cisco DNA Center using PI 3.8.x Prime Data Migration Tool Update 01 Hotfix.
- 3.7.1 update 05 to Cisco DNA Center using PI 3.7.x Prime Data Migration Tool Update 01.
- 3.5.1 update 03 to Cisco DNA Center using PI 3.5.x Prime Data Migration Tool Update 01.
- 3.6, 3.6 update 01, 3.6 update 02, 3.6 update 03, or 3.6 update 04 to Cisco DNA Center using PI 3.6.x Prime Data Migration Tool Update 01.

Follow this procedure to access the Cisco Prime Infrastructure to Cisco DNA Center migration by logging in to Cisco Prime Infrastructure:

Procedure

Step 1 Choose **Administration** > **Settings** > **System Settings** > **General** > **Cisco DNA Center coexistence**, and then click **Launch Cisco DNA Center coexistence** to open **Prime Infrastructure - Cisco DNA Center Coexistence** page.

For 3.9.1, you can either:

Click **Cisco DNA Center coexistence** in the **Mega Menu** page.

Or

Launch Cisco DNA Center coexistence from the Getting Started page. Choose **Settings** > **Getting Started** > **Cisco DNA Center coexistence**, and then click **Launch Cisco DNA Center coexistence** to open **Prime Infrastructure - Cisco DNA Center Coexistence** page.

Step 2 Click **Add Cisco DNA Center** Server.

Step 3 Enter the following Cisco DNA Center server details:

a) Server IP Address or Hostname.
b) Username
c) Password
d) Confirm Password

Note
You can integrate only one Cisco DNA Center server at a time.

Step 4 Click **Save**, to check server reachability.

Step 5 Click **Next** to go to **Sync Settings**.

Step 6 In the **Sync Settings** window:

a) You can check for the Supported/Available Limits of the Cisco DNA Center server for the **Site Groups/Site Maps** and **Devices**. Supported/Available Limits of Cisco DNA Center will vary based on the Cisco DNA Center server core(s) count.

The Supported/Available limits are specified in the below table:

Table 24: Supported/Available Limits

DNAC Core	Site Groups/Site Maps	Devices
44-Core	500	1000
56-Core	1000	4000
112-Core	2000	5000

b) Select the **Enables automatic synchronization of data integrated with Cisco DNA Center** check box to synchronize already migrated data set for the groups and devices from Prime Infrastructure to Cisco DNA Center automatically post modification.

c) Select the **Include newly added data during dynamic synchronization** checkbox to move newly created groups and newly added devices during dynamic synchronization if any, from Prime Infrastructure to Cisco DNA Center automatically post addition.

Note
Dynamic Synchronization does not support add, update or delete operations for the already migrated data and will not synchronize the data automatically for the following components:

- Maps
- CLI Templates
- ISE Server

Maps, CLI templates, and ISE server migration is achieved only by Force Sync.

- This check box is enabled only if you select the **Enables automatic synchronization of data integrated with Cisco DNA Center** check box.
- During force synchronization, if the **Enables automatic synchronization of data integrated with Cisco DNA Center** check box is enabled, any modifications that are made through force synchronization to the Location Group and Devices entities are dynamically synced in Cisco DNA Center.
- If the **Enables automatic synchronization of data integrated with Cisco DNA Center** check box is selected, CMX is dynamically assigned to Cisco DNA Center floor groups, when Cisco Prime Infrastructure imports maps to CMX. (Pre Req.: CMX dynamic sync works only on already migrated floor groups and CMX should exist in Cisco DNA Center server for CMX dynamic sync.)

d) If the **Enable CMX settings** check box is selected, CMX will be pushed with floor groups. If the **Enable CMX settings** check is not selected, CMX data will not be pushed to the Cisco DNA Center server.

e) Select the **Migrate User Defined CLI Templates** check box to migrate the user defined CLI and/or Composite Templates to Cisco DNA Center.

Step 7 Click **Next** to go to the **Select Groups** page.

Step 8 In the **Select Groups** window:

a) If you want to move an entire group hierarchy to Cisco DNA Center, check the **Replicate Parent Hierarchy** check box and select the location groups from the **Prime Infrastructure Location Groups** pane.

   By default, when you select Site Groups, the buildings, floors, and associated maps are also selected.

   Select **Global** from the **Cisco DNA Center Site Groups** pane and click **Move**.

b) If you want to move only a building or a floor to Cisco DNA Center under a different campus or area, select the required building or floor from the **Prime Infrastructure Location Groups** pane.

   Select a campus or an area from **Cisco DNA Center Site Groups** under which you need to move the building or floor and click **Move**.

After you move the groups from Cisco Prime Infrastructure to Cisco DNA Center, a **Moved** label appears on the moved groups.

The **Prime Infrastructure Location Groups** pane lists all the Cisco Prime Infrastructure groups irrespective of any virtual domain.

Note
Cisco Prime Infrastructure does not migrate devices assigned in a "Campus" to the Cisco DNA Center, when the co-existence tool is used.

As a workaround, you can assign your devices to a "Building" or "Floor" type location group before using the co-existence tool.

Note
Devices assigned in the Location groups with 'Default' Group type will not be migrated to Cisco DNA Center.

Step 9 Click **Next**.

Step 10 In the **CMX Credentials** window:

a) You can view the list of associated CMX for selected groups with the following details:

- Credential Status
- Server IP address
- Device Name
- Username
- Password
- SSH Username
- SSH Password

b) You must update the **SSH Username** and **SSH Password**, if it is not available for the respective CMX.

c) If the associated CMX is not found, then click **Next**.

Note
When the Cisco Prime Infrastructure – Cisco DNA Center migration tool is active and auto sync is enabled, then CMX will be dynamically pushed to Cisco DNA Center floor groups. Cisco DNA Center will there by track the location data for assigned groups.

Step 11 If you check the **Migrate User Defined CLI Templates** check box in the **Sync Settings** page, then a new page **Select CLI Templates** appears after the CMX page.

Step 12 In the **Select CLI Templates** window:

a) Non-Migrated Templates will list all the applicable user defined CLI and/or Composite templates for the device types in the selected groups for migration to Cisco DNA Center.

b) Migrated templates will list all the migrated templates available in Cisco DNA Center. You can either update or delete these templates.

Note
By default all the rows will be selected. Selected templates from the list will be updated and the deselected templates will be deleted from Cisco DNA Center.

Step 13 Click **Next**.

Step 14 In the Summary window:

a) You can view the overall summary of selected location groups, devices, associated maps, user defined templates and CMX before migrating to the Cisco DNA Center.

b) You can also view the groups, devices, maps and CMX which is added, updated and deleted under each respective tab.

c) You can view the selected CLI templates listed here. Based on the device selection in the groups you can Add/Update or Delete the CLI/Composite user defined Templates in Cisco DNA Center.

d) You can also view the status of last synced date and time.

Step 15 Click **Submit**, to migrate all the Location groups, Devices, Maps, CMX and user defined CLI/Composite templates from Prime Infrastructure to Cisco DNA Center.

Step 16 Click **Force Sync** to push data to the Cisco DNA Center server after the first migration.

You will be asked for a confirmation **DNAC data will be overwritten by PI data by the Force Sync**. Click **Yes** to proceed or **No** to stop Force Sync.

What to do next

If you want to revert the site hierarchy in Cisco DNA Center, uncheck the migrated groups in the Prime Data Migration tool and click **Force Sync**. This step deletes the migrated groups in Cisco DNA Center.

If you want to revert the device assignment (devices will be unassigned from Cisco DNA Center sites and assigned to migrated groups if the same devices are present both in Cisco Prime Infrastructure groups and Cisco DNA Center sites), perform the following steps:

- Uncheck the migrated groups in the Prime Data Migration tool and click **Force Sync**. This step deletes the migrated groups and devices in Cisco DNA Center.
- Add and assign or provision the devices in Cisco DNA Center in the required sites.

The pre-migration site hierarchy appears in Cisco DNA Center.

To migrate your Cisco Prime Infrastructure data again using the Prime Data Migration Tool, unassign the devices in Cisco Prime Infrastructure for the required groups and migrate the data.

Important Notes

This section contains important notes about Cisco Prime Infrastructure - Cisco DNA Center migration:

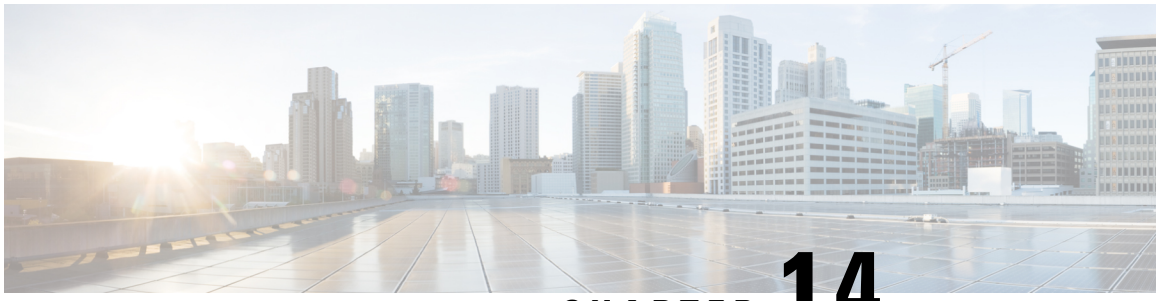
- You can integrate only one Cisco DNA Center server at a time.
- When you remove the existing DNAC server and add it again, the Migrated label for all the DNAC migrated groups/sites is removed and the groups appear as non-migrated groups/sites, even though the groups/sites are migrated.
- Only CMX version 10.6.2 or above is supported for migration.
- Before you start the next migration, you must refresh the Prime Data Migration tool to display the accurate groups and site maps.
- For the first time ISE migration, ISE can be migrated only along with Sites and Groups, from the next migration onwards, you can migrate ISE alone.
- You use a single session of the migration at a time for the same Cisco Prime Infrastructure server and Cisco DNA Center server pair.
- Once the CMX is migrated to Cisco DNA Center, it will not be managed by Cisco Prime Infrastructure.
- Cisco DNA Center will not migrate the location and civic data of any building which has no floor.
- Any legacy devices that are not supported by Cisco DNA Center chosen for migration will be added to Cisco DNA Center inventory under Device Type column “Unsupported Cisco Device”.
- Any devices managed only with SNMP V1 credentials in Cisco Prime Infrastructure cannot be migrated to Cisco DNA Center, whereas SNMP V2 and V3 can be migrated to Cisco DNA Center.
- Only the basic information of the groups will be migrated, but not the rules and profiles assigned to group.
- After integration, while upgrading Cisco DNA Center to an unsupported version, an `Unsupported Version` error appears and migration will stop.
- Access Points positioned in the maps in Cisco Prime Infrastructure will migrate to Cisco DNA Center, only if we manage its WLC devices with CLI Credentials.
- For Composite template Migration - The associated template should not be System template. If any composite template with system template will not get migrated.
- During composite template migration all the associated template in composite template should be having the same device type. Otherwise migration will fail.
- Specific composite templates migration is not recommended till Cisco DNA Center 1.3.3.8 and 2.1.1.3. However it works in later DNAC versions.
- DNAC Version 2.2.1.0 specific update:
    - Civic location is mandatory for Location Groups / Site groups migration especially for Cisco DNA Center 2.2.1.0 version.
    - If any one selected group does not have civic location configured, then all the selected Location Groups/Site groups migration will fail.

Open Caveats for Prime Data Migration Tool Update 01

The following table lists the open caveats in Prime Data Migration Tool Update 01.

Table 25: Open Caveats

Identifier	Description
CSCvx55562	Selected CLI templates are not retained in the Select CLI template section for one scenario.
CSCvx58263	Resync of the migrated hierarchy has an issue.
CSCvx58265	Check box is not applied if a group has more than 3 levels.
CSCvx58267	Wrong error message appears when there is no error.
CSCvx99927	Reparenting does not work in some scenarios.
CSCvx88631	Unrelated devices appear in the Update tab in one scenario.



CHAPTER 14

Migrate Cisco Prime Infrastructure 3.10.1 data to Cisco DNA Center

This chapter provides helpful information on the compatibility matrix, migrating data and important points related to migrating Cicso Prime Infrastructure 3.10.1 to Cicso DNA Center.

- Migrating Data from Cisco Prime Infrastructure 3.10.1 to Cisco Digital Network Architecture Center, on page 133
- Important Notes , on page 139

Migrating Data from Cisco Prime Infrastructure 3.10.1 to Cisco Digital Network Architecture Center

Follow this procedure to access the Cisco Prime Infrastructure to Cisco DNA Center migration by logging in to Cisco Prime Infrastructure:

Before you begin

Ensure that:

- You install Cisco Prime Infrastructure 3.10 or PI 3.10 Update 01
- You have Root or Super Users access privileges of Cisco Prime Infrastructure.
- You have access credentials of Cisco DNA Center.
- Refer the Cisco Prime Infrastructure and Cisco DNA Center Compatibility Matrix.

Procedure

Step 1 Click **Prime Data Migration Tool** in the **Mega Menu** page.

You can also launch Prime Data Migration Tool from the Getting Started page. Choose **Settings** > **Getting Started** > **Prime Data Migration Tool**, and then click **Launch Prime Data Migration Tool** to open **Prime Infrastructure - Prime Data Migration Tool** page.

Step 2 Click **Job history**, in the top right corner of the Prime Data Migration Tool to view Job Id, Cisco DNA Center IP, Start Time, End Time, and Status in the **Prime Data Migration Job History** window. The job summary will display only the latest 100 jobs.

Step 3 Click **Add Cisco DNA Center** Server.

Step 4 Enter the following Cisco DNA Center server details:

a) Server IP Address or Hostname.
b) Username
c) Password
d) Confirm Password

Note
You can integrate only one Cisco DNA Center server at a time.

Step 5 Click **Save**, to check server reachability.

Step 6 (Optional) Click **Multi Server Settings**, to archive, and restore the data migrated from Prime Infrastructure to DNA Center. It is recommended to use this option after Force Sync.

You can use the following options to archive the migrated data:

- **List of Cisco DNA Center Archive Available** - Displays the list of available archives.
- **Back-up Current Cisco DNA Center Pairing** - Back up migrated data of currently paired Cisco DNA Center server details in the migration tool.
- **Back-up Current & Load Cisco DNA Center Archive** - Current Cisco DNA Center server and its migrated data are backed up and you can load the required archive from the list of available archives.
- **Delete Cisco DNA Center Archive** - Deletes the selected DNA Center archives.

Step 7 Click **Next** to go to **Sync Settings**.

Step 8 In the **Sync Settings** window:

a) You can check for the Supported/Available Limits of the Cisco DNA Center server for the **Site Groups/Site Maps** , **Devices**, and **Templates**. Supported/Available Limits of Cisco DNA Center will vary based on the Cisco DNA Center server core(s) count.

The Supported/Available limits are specified in the below table:

Table 26: Supported/Available Limits

DNAC Core	Site Groups/Site Maps	Devices	Templates
44-Core	500	1000	1000
56-Core	1000	4000	1000
112-Core	2000	5000	1000

b) Select the **Enables automatic synchronization of data integrated with Cisco DNA Center** check box to synchronize already migrated data set for the groups and devices from Prime Infrastructure to Cisco DNA Center automatically post modification.
c) Select the **Include newly added data during dynamic synchronization** checkbox to move newly created groups and newly added devices during dynamic synchronization if any, from Prime Infrastructure to Cisco DNA Center automatically post addition.

Note
Dynamic Synchronization does not support add, update or delete operations for the already migrated data and will not synchronize the data automatically for the following components:

- Maps
- CLI Templates
- ISE Server

Maps, CLI templates, and ISE server migration is achieved only by Force Sync.

- This check box is enabled only if you select the **Enables automatic synchronization of data integrated with Cisco DNA Center** check box.
- During force synchronization, if the **Enables automatic synchronization of data integrated with Cisco DNA Center** check box is enabled, any modifications that are made through force synchronization to the Location Group and Devices entities are dynamically synced in Cisco DNA Center.
- If the **Enables automatic synchronization of data integrated with Cisco DNA Center** check box is selected, CMX is dynamically assigned to Cisco DNA Center floor groups, when Cisco Prime Infrastructure imports maps to CMX. (Pre Req.: CMX dynamic sync works only on already migrated floor groups and CMX should exist in Cisco DNA Center server for CMX dynamic sync.)

d) If you select the **Enable CMX settings** check box, CMX will be pushed with floor groups. If you do not select the **Enable CMX settings** check box, CMX data will not be pushed to the Cisco DNA Center server.
e) If you select the **Enable ISE settings** check box, ISE server details will be pushed. If you do not select the **Enable ISE settings** check box, ISE data will not be pushed to the Cisco DNA Center server.
f) Select the **Migrate User Defined CLI Templates** check box to migrate the user defined CLI and/or Composite Templates to Cisco DNA Center.

Step 9 Click **Next** to go to the **Select Groups** page.

Step 10 In the **Select Groups** window:

Expand the **Usage Details** section to view a summary of the site and device count details such as **Recommended**, **Selected for Migration**, and **Available**.

a) If you want to delete only the mapping from Prime Infrastructure to Cisco DNA Center and retain the instances of migrated sites in the DNA Center for the current force sync, uncheck the **Delete sites in Cisco DNA Center for the current Force Sync** checkbox.
b) Check the **Delete sites in Cisco DNA Center for the current Force Sync** check box to delete the sites from Cisco DNA Center and remove mapping from Prime Infrastructure to Cisco DNA Center for the current force sync.
c) If you want to move an entire group hierarchy to Cisco DNA Center, check the **Replicate Parent Hierarchy** check box and select the location groups from the **Prime Infrastructure Location Groups** pane.

   By default, when you select Site Groups, the buildings, floors, and associated maps are also selected.

   Click **Select Parent** below the **Prime Infrastructure Location Groups** pane to open the **Cisco DNA Center Site Groups** window.

   Marked for Deletion label appears when you unselect an already migrated group.

   Select **Global** from the **Cisco DNA Center Site Groups** pane under which you want to move the PI groups and click **OK**. The selected groups will be added in the **Group Movement Log** pane with the label as **Marked for Migration**.

d) If you want to move only a building or a floor to Cisco DNA Center under a different campus or area, click **Select Parent** below the **Prime Infrastructure Location Groups** pane to open the **Cisco DNA Center Site Groups** window.

Select a campus or an area from **Cisco DNA Center Site Groups** under which you need to move the building and select a building from Cisco DNA Center Site Groups under which you need to move the floor and click **OK**. The selected groups will be added in the **Group Movement Log** pane with the label as **Marked for Migration**.

If you click the **Close** or **Cancel** buttons in the **Cisco DNA Center Site Groups** window, the window closes without selecting any groups for migration and the **Group Movement Log** pane is not updated with the selected groups.

After you move the groups from Prime Infrastructure to Cisco DNA Center, **Marked for Migration** label appears on the moved groups.

Already migrated groups from Prime Infrastructure to Cisco DNA Center appear with the label as **Migrated** in the **Prime Infrastructure Location Groups** pane as well as the **Group Movement Log** pane.

The count of selected groups for migration appears as **Selected for Migration** under Sites. The count of selected devices for migration appears as **Selected for Migration** under Devices in **Usage details**.

Available groups count in Cisco DNA Center appears in the **Available** section under Sites and available devices count in Cisco DNA Center appears in the **Available** section under Devices in **Usage details**.

The **Prime Infrastructure Location Groups** pane lists all the Cisco Prime Infrastructure groups irrespective of any virtual domain.

Note
Cisco Prime Infrastructure does not migrate devices assigned in a "Campus" to the Cisco DNA Center, when the co-existence tool is used.

As a workaround, you can assign your devices to a "Building" or "Floor" type location group before using the co-existence tool.

Note
Devices assigned in the Location groups with 'Default' Group type are not migrated to Cisco DNA Center.

To create sites directly in Cisco DNA Center so that you can move your sites from Prime Infrastructure to Cisco DNA Center, click **Site Builder**.

In the **Site Builder** window, if you select the **Area** radio button, enter the following information:

- **Site Name**: Site name that you can create in Cisco DNA Center.
- **Parent Site**: Cisco DNA Center parent under which you can create the site.

In the **Site Builder** window, if you select the **Building** radio button to create a building in the Cisco DNA Center Area, enter the following information:

- **Site Name**: Building name that you can create in Cisco DNA Center.
- **Parent Site**: Cisco DNA Center parent under which you can create the building.
- **Civic Location**: Enter the civic location details under which you want to create the building.
- **GPS (Latitude/Longitude)**: These co-ordinates are auto-populated.

Click **Add** to create a site or building in Cisco DNA Center.

Step 11 Click **Next**.

Step 12 In the **ISE & CMX Credentials** window:

a) Click the **ISE** tab to view the ISE server details that are present in Prime Infrastructure such as:

- Server Status
- Server IP
- Port
- FQDN: Ensure FQDN field is not empty and should match the ISE admin certificate otherwise the integration will fail in DNA Center.
- Shared Secret: You must ensure that this shared secret field is not empty.
- Timeout: This value must not exceed 20.
- Retries

If no ISE server is present in Prime Infrastructure, a **No data available** message appears.

Note
You can migrate only one ISE server to Cisco DNA Center. If ISE is already configured in DNA Center, the following warning is displayed:

Cisco DNA Center is already configured with ISE server, do you want to delete the existing and migrate the ISE from PI. Do you want to continue?

b) Click the **CMX** tab to can view the list of associated CMX servers for selected groups with the following details:

- Credential Status
- Server IP address
- Device Name
- Username
- Password
- SSH Username
- SSH Password

You must update the **SSH Username** and **SSH Password**, if it is not available for the respective CMX.

If the associated CMX is not found, then click **Next**

Note
When the Cisco Prime Infrastructure – Cisco DNA Center migration tool is active and auto sync is enabled, then CMX will be dynamically pushed to Cisco DNA Center floor groups. Cisco DNA Center will there by track the location data for assigned groups.

Step 13 If you check the **Migrate User Defined CLI Templates** check box in the **Sync Settings** page, then a new page **Select CLI Templates** appears after the CMX page.

Step 14 In the **Select CLI Templates** window:

a) Non-Migrated templates list all the available CLI or Composite User Defined Templates available in Prime Infrastructure. You can select the templates need to be migrated to Cisco DNA Center.

b) Migrated templates list all the migrated templates available in Cisco DNA Center. You can either update or delete these templates.

Note
By default all the rows are selected. Selected templates from the list are updated and the deselected templates are deleted from Cisco DNA Center.

Step 15 Click **Next**.

Step 16 In the **Summary** window:

a) You can view the overall summary of selected location groups, devices, associated maps, user-defined templates, CMX sesrvers, and ISE servers before migrating to the Cisco DNA Center.

b) Click the **CLI Templates** tab to view the Add/Update of CLI/Composite user defined Templates based on the devices available in the Prime Infrastructure and click Delete section to view the templates marked for deletion.

c) In the **Sync Settings** tab, you can view the summary of the sync status.

Step 17 Click **Force Sync** to push data to the Cisco DNA Center server after the first migration.

A confirmation message appears **DNAC data will be overwritten by PI data by the Force Sync**. Click **Yes** to proceed or **No** to stop Force Sync.

A success message appears after the successful completion of the Force Sync operation.

What to do next

1. If you want to revert the site hierarchy in Cisco DNA Center, uncheck the migrated groups in the Prime Data Migration tool and click **Force Sync**. This step deletes the migrated groups in Cisco DNA Center.

   If you want to revert the device assignment (devices will be unassigned from Cisco DNA Center sites and assigned to migrated groups if the same devices are present both in Cisco Prime Infrastructure groups and Cisco DNA Center sites), perform the following steps:

   - Uncheck the migrated groups in the Prime Data Migration tool and click **Force Sync**. This step deletes the migrated groups and devices in Cisco DNA Center.
   - Add and assign or provision the devices in Cisco DNA Center in the required sites.

   The pre-migration site hierarchy appears in Cisco DNA Center.

   To migrate your Cisco Prime Infrastructure data again using the Prime Data Migration Tool, unassign the devices in Cisco Prime Infrastructure for the required groups and migrate the data.

2. Multi-DNAC is supported from Prime Data Migration Tool Update 02.0. This feature allows you to migrate to multiple DNAC clusters (one DNAC server at a time) and retain the migration data for each DNAC server. For more information, see Multi-DNAC Support.

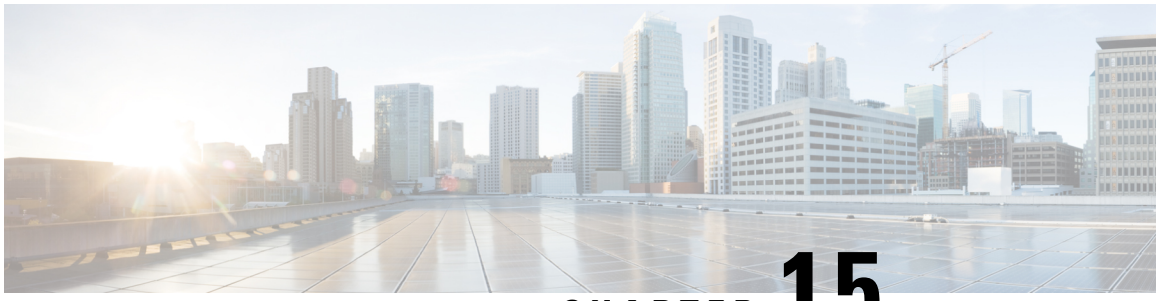
3. Refer the important notes about Cisco Prime Infrastructure - Cisco DNA Center migration, see Important Notes .

4. For the open bugs specific to the Cisco Prime Infrastructure - Cisco DNA Center migration in Prime Infrastructure 3.10.1, see Open Caveats of Cisco Prime Infrastructure 3.10.1 Release Notes.

Important Notes

This section contains important notes about Cisco Prime Infrastructure - Cisco DNA Center migration:

- You can integrate only one Cisco DNA Center server at a time.
- Groups with empty/0/null civic location values will be ignored for migration.
- When migrating ISE from Prime to DNA Center, ISE gets added to DNA Center in the failed state. To avoid this make sure to do the following:
  - Activate PXGrid on ISE
  - Enable ERS on ISE
  - ISE's CLI and GUI password must be the same
- You use a single session of the migration at a time for the same Cisco Prime Infrastructure server and Cisco DNA Center server pair.
- Once the CMX is migrated to Cisco DNA Center, it will not be managed by Cisco Prime Infrastructure.
- Cisco DNA Center will not migrate the location and civic data of any building which has no floor.
- Any legacy devices which are not supported by Cisco DNA Center chosen for migration will be added to Cisco DNA Center inventory under Device Type column -“Unsupported Cisco Device”.
- Devices managed with SNMP v2 and v3 can be migrated to Cisco DNA Center.
- Any devices managed only with SNMP v1 or SNMP v3 with DES protocol of AuthPriv credentials in Cisco Prime Infrastructure cannot be migrated to Cisco DNA Center.
- Also, bulk migration fails if any one of the devices managed by SNMP v1 or v3 with DES protocol of AuthPriv credentials.
- Only the basic information of the groups will be migrated, but not the rules and profiles assigned to group.
- After integration, while upgrading Cisco DNA Center to an unsupported version, error will be thrown as “Unsupported Version” and migration will stop.
- Access Points positioned in the maps in Cisco Prime Infrastructure will migrate to Cisco DNA Center, only if we manage its WLC devices with CLI Credentials.
- For Composite template Migration - The associated template should not be System template. If any composite template with system template will not get migrated.
- During composite template migration all the associated template in composite template should be having the same device type. Otherwise migration will fail.
- Specific composite templates migration is not recommended till Cisco DNA Center 1.3.3.8 and 2.1.1.3. However it works in later DNA Center versions.
- DNA Center Version 2.2.1.0 specific update.
- Civic location is mandatory for Location Groups / Site groups migration especially from Cisco DNA Center 2.2.1.0 version.



CHAPTER 15

Migrate Cisco Prime Infrastructure 3.10 data to Cisco DNA Center

This chapter provides helpful information on the compatibility matrix, migrating data and important points related to migrating Cicso Prime Infrastructure 3.10 to Cicso DNA Center.

- Migrating Data from Cisco Prime Infrastructure 3.10 to Cisco Digital Network Architecture Center, on page 141
- Multi-DNAC Support, on page 146

Migrating Data from Cisco Prime Infrastructure 3.10 to Cisco Digital Network Architecture Center

Follow this procedure to access the Cisco Prime Infrastructure to Cisco DNA Center migration by logging in to Cisco Prime Infrastructure:

Procedure

Step 1 Click **Cisco DNA Center coexistence** in the **Mega Menu** page.

You can also launch Cisco DNA Center coexistence from the Getting Started page. Choose **Settings** > **Getting Started** > **Cisco DNA Center coexistence**, and then click **Launch Cisco DNA Center coexistence** to open **Prime Infrastructure - Cisco DNA Center Coexistence** page.

Step 2 Click **Add Cisco DNA Center** Server.

Step 3 Enter the following Cisco DNA Center server details:

a) Server IP Address or Hostname.
b) Username
c) Password
d) Confirm Password

Note
You can integrate only one Cisco DNA Center server at a time.

Step 4 Click **Save**, to check server reachability.

Step 5 Click **Next** to go to **Sync Settings**.

Step 6 In the **Sync Settings** window:

a) You can check for the Supported/Available Limits of the Cisco DNA Center server for the **Site Groups/Site Maps** and **Devices**. Supported/Available Limits of Cisco DNA Center will vary based on the Cisco DNA Center server core(s) count.

The Supported/Available limits are specified in the below table:

Table 27: Supported/Available Limits

DNAC Core	Site Groups/Site Maps	Devices	Templates
44-Core	500	1000	1000
56-Core	1000	4000	1000
112-Core	2000	5000	1000

b) Select the **Enables automatic synchronization of data integrated with Cisco DNA Center** check box to synchronize already migrated data set for the groups and devices from Prime Infrastructure to Cisco DNA Center automatically post modification.

c) Select the **Include newly added data during dynamic synchronization** checkbox to move newly created groups and newly added devices during dynamic synchronization if any, from Prime Infrastructure to Cisco DNA Center automatically post addition.

Note
Dynamic Synchronization does not support add, update or delete operations for the already migrated data and will not synchronize the data automatically for the following components:

- Maps
- CLI Templates
- ISE Server

Maps, CLI templates, and ISE server migration is achieved only by Force Sync.

- This check box is enabled only if you select the **Enables automatic synchronization of data integrated with Cisco DNA Center** check box.
- During force synchronization, if the **Enables automatic synchronization of data integrated with Cisco DNA Center** check box is enabled, any modifications that are made through force synchronization to the Location Group and Devices entities are dynamically synced in Cisco DNA Center.
- If the **Enables automatic synchronization of data integrated with Cisco DNA Center** check box is selected, CMX is dynamically assigned to Cisco DNA Center floor groups, when Cisco Prime Infrastructure imports maps to CMX. (Pre Req.: CMX dynamic sync works only on already migrated floor groups and CMX should exist in Cisco DNA Center server for CMX dynamic sync.)

d) If you select the **Enable CMX settings** check box, CMX will be pushed with floor groups. If you do not select the **Enable CMX settings** check box, CMX data will not be pushed to the Cisco DNA Center server.

e) If you select the **Enable ISE settings** check box, ISE server details will be pushed. If you do not select the **Enable ISE settings** check box, ISE data will not be pushed to the Cisco DNA Center server.

f) Select the **Migrate User Defined CLI Templates** check box to migrate the user defined CLI and/or Composite Templates to Cisco DNA Center.

Step 7 Click **Next** to go to the **Select Groups** page.

Step 8 In the **Select Groups** window:

Expand the **Usage Details** section to view a summary of the site and device count details such as **Recommended**, **Selected for Migration**, and **Available**.

a) If you want to move an entire group hierarchy to Cisco DNA Center, check the **Replicate Parent Hierarchy** check box and select the location groups from the **Prime Infrastructure Location Groups** pane.

By default, when you select Site Groups, the buildings, floors, and associated maps are also selected.

Click **Select DNAC Parent** below the **Prime Infrastructure Location Groups** pane to open the **Cisco DNA Center Site Groups** window.

Marked for Deletion label appears when you unselect an already migrated group.

Select **Global** from the **Cisco DNA Center Site Groups** pane under which you want to move the PI groups and click **OK**. The selected groups will be added in the **Group Movement Log** pane with the label as **Marked for Migration**.

b) If you want to move only a building or a floor to Cisco DNA Center under a different campus or area, click **Select DNAC Parent** below the **Prime Infrastructure Location Groups** pane to open the **Cisco DNA Center Site Groups** window.

Select a campus or an area from **Cisco DNA Center Site Groups** under which you need to move the building and select a building from Cisco DNA Center Site Groups under which you need to move the floor and click **OK**. The selected groups will be added in the **Group Movement Log** pane with the label as **Marked for Migration**.

If you click the **Close** or **Cancel** buttons in the **Cisco DNA Center Site Groups** window, the window closes without selecting any groups for migration and the **Group Movement Log** pane is not updated with the selected groups.

After you move the groups from Prime Infrastructure to Cisco DNA Center, **Marked for Migration** label appears on the moved groups.

Already migrated groups from Prime Infrastructure to Cisco DNA Center appear with the label as **Migrated** in the **Prime Infrastructure Location Groups** pane as well as the **Group Movement Log** pane.

The count of selected groups for migration appears as **Selected for Migration** under Sites. The count of selected devices for migration appears as **Selected for Migration** under Devices in **Usage details**.

Available groups count in Cisco DNA Center appears in the **Available** section under Sites and available devices count in Cisco DNA Center appears in the **Available** section under Devices in **Usage details**.

The **Prime Infrastructure Location Groups** pane lists all the Cisco Prime Infrastructure groups irrespective of any virtual domain.

Note
Cisco Prime Infrastructure does not migrate devices assigned in a "Campus" to the Cisco DNA Center, when the co-existence tool is used.

As a workaround, you can assign your devices to a "Building" or "Floor" type location group before using the co-existence tool.

Note
Devices assigned in the Location groups with 'Default' Group type are not migrated to Cisco DNA Center.

To create sites directly in Cisco DNA Center so that you can move your sites from Prime Infrastructure to Cisco DNA Center, click **DNAC Site Builder**.

In the **DNAC Site Builder** window, if you select the **Area** radio button, enter the following information:

- **Site Name**: Site name that you can create in Cisco DNA Center.
- **Parent Site**: Cisco DNA Center parent under which you can create the site.

In the **DNAC Site Builder** window, if you select the **Building** radio button to create a building in the Cisco DNA Center Area, enter the following information:

- **Site Name**: Building name that you can create in Cisco DNA Center.
- **Parent Site**: Cisco DNA Center parent under which you can create the building.
- **Civic Location**: Enter the civic location details under which you want to create the building.
- **GPS (Latitude/Longitude)**: These co-ordinates are auto-populated.

Click **Add** to create a site or building in Cisco DNA Center.

Step 9 Click **Next**.

Step 10 In the **ISE & CMX Credentials** window:

a) Click the **ISE** tab to view the ISE server details that are present in Prime Infrastructure such as:

- Server Status
- Server IP
- Port
- Server Name
- Username
- Shared Secret: You must ensure that this shared secret field is not empty.
- Timeout: This value must not exceed 20.
- Retries

If no ISE server is present in Prime Infrastructure, a **No data available** message appears.

b) Click the **CMX** tab to can view the list of associated CMX servers for selected groups with the following details:

- Credential Status
- Server IP address
- Device Name
- Username
- Password
- SSH Username
- SSH Password

You must update the **SSH Username** and **SSH Password**, if it is not available for the respective CMX.

If the associated CMX is not found, then click **Next**

Note
When the Cisco Prime Infrastructure – Cisco DNA Center migration tool is active and auto sync is enabled, then CMX will be dynamically pushed to Cisco DNA Center floor groups. Cisco DNA Center will there by track the location data for assigned groups.

Step 11 If you check the **Migrate User Defined CLI Templates** check box in the **Sync Settings** page, then a new page **Select CLI Templates** appears after the CMX page.

Step 12 In the **Select CLI Templates** window:

a) Non-Migrated templates list all the applicable user defined CLI and, or , or both Composite templates for the device types in the selected groups for migration to Cisco DNA Center.
b) Migrated templates list all the migrated templates available in Cisco DNA Center. You can either update or delete these templates.

Note
By default all the rows are selected. Selected templates from the list are updated and the deselected templates are deleted from Cisco DNA Center.

Step 13 Click **Next**.

Step 14 In the **Summary** window:

a) You can view the overall summary of selected location groups, devices, associated maps, user-defined templates, CMX sesrvers, and ISE servers before migrating to the Cisco DNA Center.
b) You can also view the groups, devices, maps, ISE, and CMX that are added, updated and deleted under each respective tab.
c) Click the **CLI templates** tab to view the selected CLI templates listed here. Based on the device selection in the groups you can Add/Update or Delete the CLI/Composite user defined Templates in Cisco DNA Center.
d) In the **Sync Settings** tab, you can view the summary of the sync status.

Step 15 Click **Force Sync** to push data to the Cisco DNA Center server after the first migration.

A confirmation message appears **DNAC data will be overwritten by PI data by the Force Sync**. Click **Yes** to proceed or **No** to stop Force Sync.

A success message appears after the successful completion of the Force Sync operation.

What to do next

1. If you want to revert the site hierarchy in Cisco DNA Center, uncheck the migrated groups in the Prime Data Migration tool and click **Force Sync**. This step deletes the migrated groups in Cisco DNA Center.

   If you want to revert the device assignment (devices will be unassigned from Cisco DNA Center sites and assigned to migrated groups if the same devices are present both in Cisco Prime Infrastructure groups and Cisco DNA Center sites), perform the following steps:

   - Uncheck the migrated groups in the Prime Data Migration tool and click **Force Sync**. This step deletes the migrated groups and devices in Cisco DNA Center.
   - Add and assign or provision the devices in Cisco DNA Center in the required sites.

The pre-migration site hierarchy appears in Cisco DNA Center.

To migrate your Cisco Prime Infrastructure data again, unassign the devices in Cisco Prime Infrastructure for the required groups and migrate the data.

2. Prime Infrastructure provides Multi-DNAC support. This feature allows you to migrate to multiple DNAC clusters (one DNAC server at a time) and retain the migration data for each DNAC server. For more information, see Multi-DNAC Support.
3. Refer the important notes about Cisco Prime Infrastructure - Cisco DNA Center migration at Important Notes.
4. Refer the open bugs specific to the Cisco Prime Infrastructure - Cisco DNA Center migration in Prime Infrastructure 3.10 at Open Caveats.

Multi-DNAC Support

In earlier releases, you can only integrate one Cisco DNA Center server with one Cisco Prime Infrastructure server.

Multi-DNAC support allows you to migrate to multiple Cisco DNA Center clusters (one Cisco DNA Center server at a time) and retain the migration data for each Cisco DNA Center server.

You can take backup of the migration data of a Cisco DNA Center server. These backup files are available at **/opt/CSCOlumos/multiDNAC** and contain information about migrated groups, site locations, templates, ISE server, and CMX server. You can restore the archive files anytime.

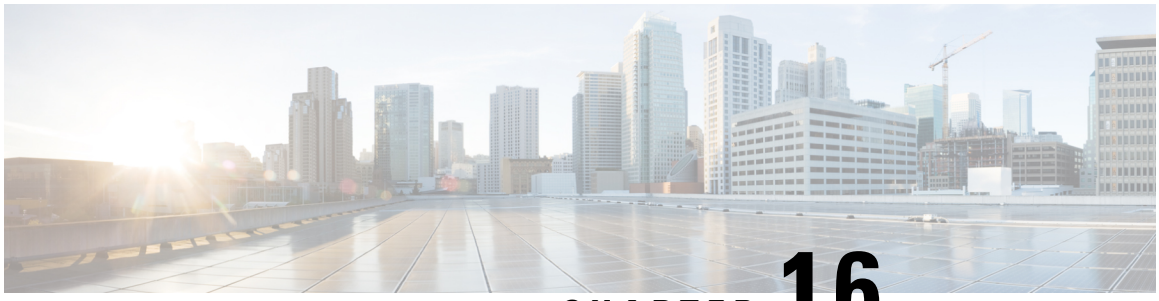
In Prime Infrastructure, you must use a script for the multi-DNAC support. To invoke the script, go to **/opt/CSCOlumos/bin** and execute the command: **. run_command.sh multi-dnac**.

The script provides the following options:

1. List available DNAC archives: Displays the list of archives available.
2. Backup the current paired DNAC server: Cisco DNA Center server that is in the migration tool and its details are backed up.
3. Backup current paired DNAC server and load DNAC archive: Current Cisco DNA Center server and its details are backed up and you are prompted to load any other available archive by entering the IP address.
4. Delete DNAC archives: Enter the IP address of the DNAC archive to delete its backup details.
5. Quit

The stored Cisco DNA Center archives are available with the Cisco DNA Center server's IP address as the prefix. The command allows one archive per Cisco DNA Center server and you can backup the data any number of times. The latest configuration overwrites with the existing archive. The maximum number of archives depends on the disk storage and there are no restrictions on the limit.

Note The backup files do not restore any sync settings. You can perform a backup only if force sync was done in the migration tool.



CHAPTER 16

Migrate Cisco Prime Infrastructure 3.9 data to Cisco DNA Center

This chapter provides helpful information on the compatibility matrix, migrating data and important points related to migrating Cicso Prime Infrastructure to Cicso DNA Center.

- Migrating Data from Cisco Prime Infrastructure 3.9 to Cisco Digital Network Architecture Center, on page 147
- Important Notes, on page 150

Migrating Data from Cisco Prime Infrastructure 3.9 to Cisco Digital Network Architecture Center

Follow this procedure to access the Cisco Prime Infrastructure to Cisco DNA Center migration by logging in to Cisco Prime Infrastructure:

Before you begin

Ensure that:

- You have Root or Super Users access privileges of Cisco Prime Infrastructure.
- You have access credentials of Cisco DNA Center.
- You use Cisco Prime Infrastructure version 3.5 and above which is compatible with Cisco DNA Center versions mentioned in the Compatibility Matrix table.

Procedure

Step 1 Click **Cisco DNA Center coexistence** in the **Mega Menu** page.

You can also launch Cisco DNA Center coexistence from the Getting Started page. Choose **Settings** > **Getting Started** > **Cisco DNA Center coexistence**, and then click **Launch Cisco DNA Center coexistence** to open **Prime Infrastructure - Cisco DNA Center Coexistence** page.

Step 2 Click **Add Cisco DNA Center** Server.

Step 3 Enter the following Cisco DNA Center server details:

a) Server IP Address or Hostname.
b) Username
c) Password
d) Confirm Password

Note
You can integrate only one Cisco DNA Center server at a time.

Step 4 Click **Save**, to check server reachability.

Step 5 Click **Next** to go to **Sync Settings**.

Step 6 In the **Sync Settings** window:

a) You can check for the Supported/Available Limits of the Cisco DNA Center server for the **Site Groups/Site Maps** and **Devices**. Supported/Available Limits of Cisco DNA Center will vary based on the Cisco DNA Center server core(s) count.

The Supported/Available limits are specified in the below table:

Table 28: Supported/Available Limits

DNAC Core	Site Groups/Site Maps	Devices
44-Core	500	1000
56-Core	1000	4000
112-Core	2000	5000

b) Select the **Enables automatic synchronization of data integrated with Cisco DNA Center** checkbox to synchronize already migrated data set for the groups and devices from Prime Infrastructure to Cisco DNA Center automatically post modification.

c) Select the **Include newly added data during dynamic synchronization** checkbox to move newly created groups and newly added devices during dynamic synchronization if any, from Prime Infrastructure to Cisco DNA Center automatically post addition.

Note
Dynamic Synchronization does not support add, update or delete operations for the already migrated data and will not synchronize the data automatically for the following components:

- Maps
- CLI Templates
- ISE Server

Maps, CLI templates, and ISE server migration is achieved only by Force Sync.

- This check box is enabled only if you select the **Enables automatic synchronization of data integrated with Cisco DNA Center** check box.
- During force synchronization, if the **Enables automatic synchronization of data integrated with Cisco DNA Center** check box is enabled, any modifications that are made through force synchronization to the Location Group and Devices entities are dynamically synced in Cisco DNA Center.

- If the **Enables automatic synchronization of data integrated with Cisco DNA Center** check box is selected, CMX is dynamically assigned to Cisco DNA Center floor groups, when Cisco Prime Infrastructure imports maps to CMX. (Pre Req.: CMX dynamic sync works only on already migrated floor groups and CMX should exist in Cisco DNA Center server for CMX dynamic sync.)

d) If the **Enable CMX settings** checkbox is selected, CMX will be pushed with floor groups. If the **Enable CMX settings** check is not selected, CMX data will not be pushed to the Cisco DNA Center server.

e) Select the **Migrate User Defined CLI Templates** checkbox to migrate the user defined CLI and/or Composite Templates to Cisco DNA Center.

Step 7 Click **Next** to go to the Select Groups page.

Step 8 In the Select Groups window:

a) Select the location groups from the Cisco Prime Infrastructure Location Groups Selector pane. Upon selecting Site Groups, by default the buildings, floors and associated maps also get selected.

Before adding Cisco Prime Infrastructure location groups to Cisco DNA Center, you can check the limitation status bar for the selected/maximum devices and site groups of Cisco DNA Center.

The Cisco Prime Infrastructure Location groups selector pane lists all the Prime Infrastructure groups irrespective of any virtual domain.

Note
Cisco Prime Infrastructure does not migrate devices assigned in a "Campus" to the Cisco DNA Center, when the co-existence tool is used.

As a workaround, you can assign your devices to a "Building" or "Floor" type location group before using the co-existence tool.

Note
Devices assigned in the Location groups with 'Default' Group type will not be migrated to Cisco DNA Center.

Step 9 Click **Next**.

Step 10 In the CMX Credentials window:

a) You can view the list of associated CMX for selected groups with the following details:

- Credential Status
- Server IP address
- Device Name
- Username
- Password
- SSH Username
- SSH Password

b) You must update the **SSH Username** and **SSH Password**, if it is not available for the respective CMX.

c) If the associated CMX is not found, then click **Next**.

Note

When the Cisco Prime Infrastructure – Cisco DNA Center migration tool is active and auto sync is enabled, then CMX will be dynamically pushed to Cisco DNA Center floor groups. Cisco DNA Center will there by track the location data for assigned groups.

Step 11 If "Migrate User Defined CLI Templates" checkbox is selected in 'Sync settings' page, then a new page "Select CLI Templates" will be seen after CMX page.

Step 12 In the Select CLI Templates window:

a) Non-Migrated Templates will list all the applicable user defined CLI and/or Composite templates for the device types in the selected groups for migration to Cisco DNA Center.

b) Migrated templates will list all the migrated templates available in Cisco DNA Center. You can either update or delete these templates.

Note
By default all the rows will be selected. Selected templates from the list will be updated and the deselected templates will be deleted from Cisco DNA Center.

Step 13 Click **Next**.

Step 14 In the Summary window:

a) You can view the overall summary of selected location groups, devices, associated maps, user defined templates and CMX before migrating to the Cisco DNA Center.

b) You can also view the groups, devices, maps and CMX which is added, updated and deleted under each respective tab.

c) You can view the selected CLI templates listed here. Based on the device selection in the groups you can Add/Update or Delete the CLI/Composite user defined Templates in Cisco DNA Center.

d) You can also view the status of last synced date and time.

Step 15 Click **Submit**, to migrate all the Location groups, Devices, Maps, CMX and user defined CLI/Composite templates from Prime Infrastructure to Cisco DNA Center.

Step 16 Click **Force Sync** to push data to the Cisco DNA Center server after the first migration.

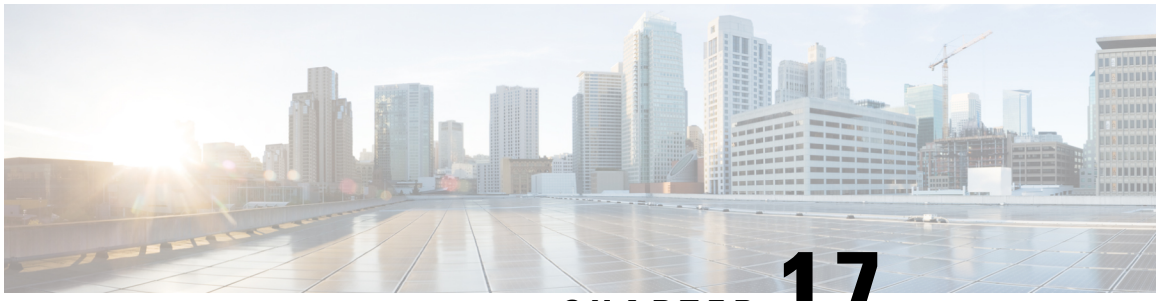
You will be asked for a confirmation **DNAC data will be overwritten by PI data by the Force Sync**. Click **Yes** to proceed or **No** to stop Force Sync.

Important Notes

This section contains important notes about Cisco Prime Infrastructure - Cisco DNA Center migration:

- You can integrate only one Cisco DNA Center server at a time.
- Enabling the proxy setting is mandatory for migrating country code along with location groups from Cisco Prime Infrastructure 3.8.
- You use a single session of the migration at a time for the same Cisco Prime Infrastructure server and Cisco DNA Center server pair.
- Once the CMX is migrated to Cisco DNA Center, it will not be managed by Cisco Prime Infrastructure.
- Cisco DNA Center will not migrate the location and civic data of any building which has no floor.

- Any legacy devices which are not supported by Cisco DNA Center chosen for migration will be added to Cisco DNA Center inventory under Device Type column -“Unsupported Cisco Device”.
- Any devices managed only with SNMP V1 credentials in Cisco Prime Infrastructure cannot be migrated to Cisco DNA Center, whereas SNMP V2 and V3 can be migrated to Cisco DNA Center.
- Only the basic information of the groups will be migrated, but not the rules and profiles assigned to group.
- After integration, while upgrading Cisco DNA Center to an unsupported version, error will be thrown as “Unsupported Version” and migration will stop.
- Access Points positioned in the maps in Cisco Prime Infrastructure will migrate to Cisco DNA Center, only if we manage its WLC devices with CLI Credentials.
- For Composite template Migration - The associated template should not be System template. If any composite template with system template will not get migrated.
- During composite template migration all the associated template in composite template should be having the same device type. Otherwise migration will fail.
- Specific composite templates migration is not recommended till Cisco DNA Center 1.3.3.8 and 2.1.1.3. However it works in later DNAC versions.
- DNAC Version 2.2.1.0 specific update.
-
  - Civic location is mandatory for Location Groups / Site groups migration especially for Cisco DNA Center 2.2.1.0 version.
  - If any one selected group does not have civic location configured, then all the selected Location Groups/Site groups migration will fail.



CHAPTER 17

Migrate Cisco Prime Infrastructure 3.8.1 data to Cisco DNA Center

This chapter provides helpful information on the compatibility matrix, migrating data and important points related to migrating Cicso Prime Infrastructure to Cicso DNA Center.

- Migrating Data from Cisco Prime Infrastructure 3.8.1 to Cisco Digital Network Architecture Center, on page 153
- Important Notes, on page 156

Migrating Data from Cisco Prime Infrastructure 3.8.1 to Cisco Digital Network Architecture Center

Follow this procedure to access the Cisco Prime Infrastructure to Cisco DNA Center migration by logging in to Cisco Prime Infrastructure:

Before you begin

Ensure that:

- You have Root or Super Users access privileges of Cisco Prime Infrastructure.
- You have access credentials of Cisco DNA Center.
- You use Cisco Prime Infrastructure version 3.5 and above which is compatible with Cisco DNA Center versions mentioned in the Compatibility Matrix table.

Procedure

Step 1 Choose **Administration** > **Settings** > **System Settings** > **General** > **Cisco DNA Center coexistence**, and then click **Launch Cisco DNA Center coexistence** to open **Prime Infrastructure - Cisco DNA Center Coexistence** page.

Step 2 Click **Add Cisco DNA Center** Server.

Step 3 Enter the following Cisco DNA Center server details:

a) Server IP Address or Hostname.

b) Username

c) Password
d) Confirm Password

Note
You can integrate only one Cisco DNA Center server at a time.

Step 4 Click **Save**, to check server reachability.

Step 5 Click **Next** to go to **Sync Settings**.

Step 6 In the **Sync Settings** window:

a) You can check for the Supported/Available Limits of the Cisco DNA Center server for the **Site Groups/Site Maps** and **Devices**. Supported/Available Limits of Cisco DNA Center will vary based on the Cisco DNA Center server core(s) count.

The Supported/Available limits are specified in the below table:

Table 29: Supported/Available Limits

DNAC Core	Site Groups/Site Maps	Devices
44-Core	500	1000
56-Core	1000	4000
112-Core	2000	5000

b) Select the **Enables automatic synchronization of data integrated with Cisco DNA Center** checkbox to synchronize already migrated data set for the groups and devices from Prime Infrastructure to Cisco DNA Center automatically post modification.

c) Select the **Include newly added data during dynamic synchronization** checkbox to move newly created groups and newly added devices during dynamic synchronization if any, from Prime Infrastructure to Cisco DNA Center automatically post addition.

Note
Dynamic Synchronization does not support add, update or delete operations for the already migrated data and will not synchronize the data automatically for the following components:

- Maps
- CLI Templates
- ISE Server

Maps, CLI templates, and ISE server migration is achieved only by Force Sync.

- This check box is enabled only if you select the **Enables automatic synchronization of data integrated with Cisco DNA Center** check box.
- During force synchronization, if the **Enables automatic synchronization of data integrated with Cisco DNA Center** check box is enabled, any modifications that are made through force synchronization to the Location Group and Devices entities are dynamically synced in Cisco DNA Center.
- If the **Enables automatic synchronization of data integrated with Cisco DNA Center** check box is selected, CMX is dynamically assigned to Cisco DNA Center floor groups, when Cisco Prime Infrastructure imports maps to CMX. (Pre Req.: CMX dynamic sync works only on already migrated floor groups and CMX should exist in Cisco DNA Center server for CMX dynamic sync.)

d) If the **Enable CMX settings** checkbox is selected, CMX will be pushed with floor groups. If the **Enable CMX settings** check is not selected, CMX data will not be pushed to the Cisco DNA Center server.
e) Select the **Migrate User Defined CLI Templates** checkbox to migrate the user defined CLI Templates to Cisco DNA Center.

Step 7 Click **Next** to go to the Select Groups page.

Step 8 In the Select Groups window:

a) Select the location groups from the Cisco Prime Infrastructure Location Groups Selector pane. Upon selecting Site Groups, by default the buildings, floors and associated maps also get selected.

Before adding Cisco Prime Infrastructure location groups to Cisco DNA Center, you can check the limitation status bar for the selected/maximum devices and site groups of Cisco DNA Center.

The Cisco Prime Infrastructure Location groups selector pane lists all the Prime Infrastructure groups irrespective of any virtual domain.

Note
Cisco Prime Infrastructure does not migrate devices assigned in a "Campus" to the Cisco DNA Center, when the co-existence tool is used.

As a workaround, you can assign your devices to a "Building" or "Floor" type location group before using the co-existence tool.

Step 9 Click **Next**.

Step 10 In the CMX Credentials window:

a) You can view the list of associated CMX for selected groups with the following details:

- Credential Status
- Server IP address
- Device Name
- Username
- Password
- SSH Username
- SSH Password

b) You must update the **SSH Username** and **SSH Password**, if it is not available for the respective CMX.
c) If the associated CMX is not found, then click **Next**.

Note
When the Cisco Prime Infrastructure – Cisco DNA Center migration tool is active and auto sync is enabled, then CMX will be dynamically pushed to Cisco DNA Center floor groups. Cisco DNA Center will there by track the location data for assigned groups.

Step 11 In the Select CLI Templates window:

a) You can view all the user defined CLI templates applicable for the devices in the selected group.
b) You can choose the desired templates which needs to be migarted.

Step 12 Click **Next** to migrate the selected templates.

Step 13 In the Summary window:

a) You can view the overall summary of selected location groups, devices, associated maps, user defined CLI Templates and CMX before migrating to the Cisco DNA Center.
b) You can view the groups, devices, maps and CMX which is added, updated and deleted under each respective tab.
c) You can also view the status of last synced date and time.
d) You can view the additional info tab created for Catalyst 9800 devices, under the devices tab.

Step 14 Click **Submit**, to migrate all the Location Groups, Devices, Maps, CLI Templates and CMX from Prime Infrastructure to Cisco DNA Center.

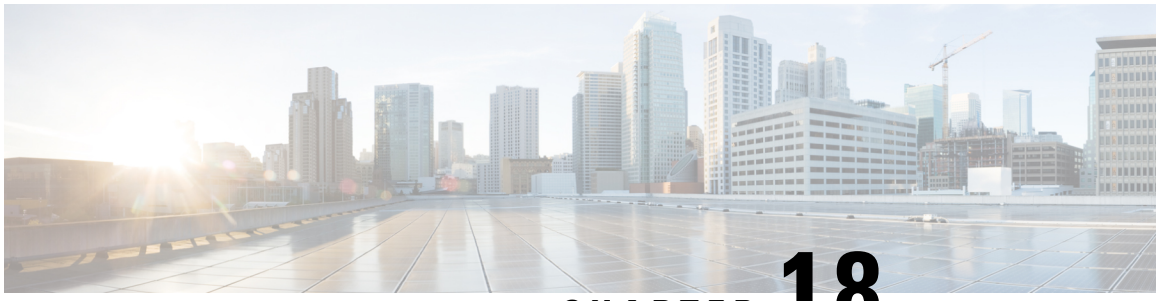
Step 15 Click **Force Sync** to push data to the Cisco DNA Center server after the first migration.

Important Notes

This section contains important notes about Cisco Prime Infrastructure - Cisco DNA Center migration:

- You can integrate only one Cisco DNA Center server at a time.
- Before you start the next migration, you must refresh the Prime Data Migration tool to display the accurate groups and site maps.
- You use a single session of the migration at a time for the same Cisco Prime Infrastructure server and Cisco DNA Center server pair.
- Once the CMX is migrated to Cisco DNA Center, it will not be managed by Cisco Prime Infrastructure.
- Cisco DNA Center will not migrate the location and civic data of any building which has no floor.
- You can migrate the user defined CLI Templates from Cicso Prime Infrastructre to Cisco DNA Center with the Select CLI Templates tab.
- Any legacy devices which are not supported by Cisco DNA Center chosen for migration will be added to Cisco DNA Center inventory under Device Type column -“Unsupported Cisco Device”.
- Any device which falls under the "Default" group category cannot be migrated to Cisco DNA Center.
- Any devices managed only with SNMP V1 credentials in Cisco Prime Infrastructure cannot be migrated to Cisco DNA Center, whereas SNMP V2 and V3 can be migrated to Cisco DNA Center.
- Only the basic information of the groups will be migrated, but not the rules and profiles assigned to group.
- When you migrate Cisco Catalyst 9800 series wireless controller from Cisco Prime Infrastructure to Cisco DNA Center, it needs the Netconf Port field details in order to move the device to managed state.
- Once the migration is done, the user has to provide the Netconf credentials in the Cisco DNA Center server manually.
- After integration, while upgrading Cisco DNA Center to an unsupported version, error will be thrown as “Unsupported Version” and migration will stop.
- Access Points positioned in the maps in Cisco Prime Infrastructure will migrate to Cisco DNA Center, only if we manage its WLC devices with CLI Credentials.
- For Composite template Migration - The associated template should not be System template. If any composite template with system template will not get migrated.

- During composite template migration all the associated template in composite template should be having the same device type. Otherwise migration will fail.
- Specific composite templates migration is not recommended till Cisco DNA Center 1.3.3.8 and 2.1.1.3. However it works in later DNAC versions.
- DNAC Version 2.2.1.0 specific update.
-
  - Civic location is mandatory for Location Groups / Site groups migration especially for Cisco DNA Center 2.2.1.0 version.
  - If any one selected group does not have civic location configured, then all the selected Location Groups/Site groups migration will fail.



CHAPTER 18

Migrate Cisco Prime Infrastructure 3.8 data to Cisco DNA Center

- Migrating Data from Cisco Prime Infrastructure 3.8 to Cisco Digital Network Architecture Center, on page 159
- Important Notes, on page 162

Migrating Data from Cisco Prime Infrastructure 3.8 to Cisco Digital Network Architecture Center

Follow this procedure to access the Cisco Prime Infrastructure to Cisco DNA Center migration by logging in to Cisco Prime Infrastructure:

Before you begin

Ensure that:

- You have Root or Super Users access privileges of Cisco Prime Infrastructure.
- You have access credentials of Cisco DNA Center.
- You use Cisco Prime Infrastructure version 3.5 and above which is compatible with Cisco DNA Center versions mentioned in the Compatibility Matrix table.

Procedure

Step 1 Choose **Administration** > **Settings** > **System Settings** > **General** > **Cisco DNA Center coexistence**, and then click **Launch Cisco DNA Center coexistence** to open **Prime Infrastructure - Cisco DNA Center Coexistence** page.

Step 2 Click **Add Cisco DNA Center** Server.

Step 3 Enter the following Cisco DNA Center server details:

a) Server IP Address or Hostname.
b) Username
c) Password
d) Confirm Password

Note
You can integrate only one Cisco DNA Center server at a time.

Step 4 Click **Save**, to check server reachability.

Step 5 Click **Next** to go to **Sync Settings**.

Step 6 In the **Sync Settings** window:

a) You can check for the Supported/Available Limits of the Cisco DNA Center server for the **Site Groups/Site Maps** and **Devices**. Supported/Available Limits of Cisco DNA Center will vary based on the Cisco DNA Center server core(s) count.

The Supported/Available limits are specified in the below table:

Table 30: Supported/Available Limits

DNAC Core	Site Groups/Site Maps	Devices
44-Core	500	1000
56-Core	1000	4000
112-Core	2000	5000

b) Select the **Enables automatic synchronization of data integrated with Cisco DNA Center** checkbox to synchronize already migrated data set for the groups and devices from Prime Infrastructure to Cisco DNA Center automatically post modification.

c) Select the **Include newly added data during dynamic synchronization** checkbox to move newly created groups and newly added devices during dynamic synchronization if any, from Prime Infrastructure to Cisco DNA Center automatically post addition.

Note
Dynamic Synchronization does not support add, update or delete operations for the already migrated data and will not synchronize the data automatically for the following components:

- Maps
- CLI Templates
- ISE Server

Maps, CLI templates, and ISE server migration is achieved only by Force Sync.

- This check box is enabled only if you select the **Enables automatic synchronization of data integrated with Cisco DNA Center** check box.
- During force synchronization, if the **Enables automatic synchronization of data integrated with Cisco DNA Center** check box is enabled, any modifications that are made through force synchronization to the Location Group and Devices entities are dynamically synced in Cisco DNA Center.
- If the **Enables automatic synchronization of data integrated with Cisco DNA Center** check box is selected, CMX is dynamically assigned to Cisco DNA Center floor groups, when Cisco Prime Infrastructure imports maps to CMX. (Pre Req.: CMX dynamic sync works only on already migrated floor groups and CMX should exist in Cisco DNA Center server for CMX dynamic sync.)

d) If the **Enable CMX settings** checkbox is selected, CMX will be pushed with floor groups. If the **Enable CMX settings** check is not selected, CMX data will not be pushed to the Cisco DNA Center server.

Step 7 Click **Next** to go to the Select Groups page.

Step 8 In the Select Groups window:

a) Select the location groups from the Cisco Prime Infrastructure Location Groups Selector pane. Upon selecting Site Groups, by default the buildings, floors and associated maps also get selected.

Before adding Cisco Prime Infrastructure location groups to Cisco DNA Center, you can check the limitation status bar for the selected/maximum devices and site groups of Cisco DNA Center.

The Cisco Prime Infrastructure Location groups selector pane lists all the Prime Infrastructure groups irrespective of any virtual domain.

Note
Cisco Prime Infrastructure does not migrate devices assigned in a "Campus" to the Cisco DNA Center, when the co-existence tool is used.

As a workaround, you can assign your devices to a "Building" or "Floor" type location group before using the co-existence tool.

Note
Devices assigned in the Location groups with 'Default' Group type will not be migrated to Cisco DNA Center.

Step 9 Click **Next**.

Step 10 In the CMX Credentials window:

a) You can view the list of associated CMX for selected groups with the following details:

- Credential Status
- Server IP address
- Device Name
- Username
- Password
- SSH Username
- SSH Password

b) You must update the **SSH Username** and **SSH Password**, if it is not available for the respective CMX.

c) If the associated CMX is not found, then click **Next**.

Note
When the Cisco Prime Infrastructure – Cisco DNA Center migration tool is active and auto sync is enabled, then CMX will be dynamically pushed to Cisco DNA Center floor groups. Cisco DNA Center will there by track the location data for assigned groups.

Step 11 In the Summary window:

a) You can view the overall summary of selected location groups, devices, associated maps and CMX before migrating to the Cisco DNA Center.

b) You can also view the groups, devices, maps and CMX which is added, updated and deleted under each respective tab.

c) You can also view the status of last synced date and time.
d) You can view the additional info tab created for Catalyst 9800 devices, under the devices tab.

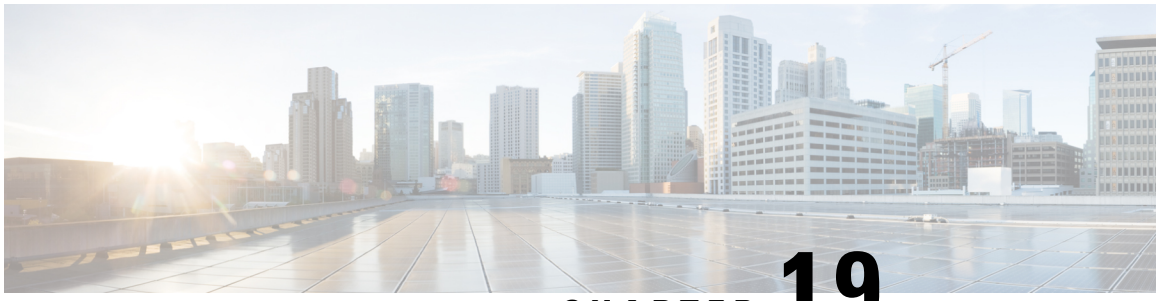
Step 12 Click **Submit**, to migrate all the Location Groups, Devices, Maps and CMX from Prime Infrastructure to Cisco DNA Center.

Step 13 Click **Force Sync** to push data to the Cisco DNA Center server after the first migration.

Important Notes

This section contains important notes about Cisco Prime Infrastructure - Cisco DNA Center migration:

- You can integrate only one Cisco DNA Center server at a time.
- Enabling the proxy setting is mandatory for migrating country code along with location groups from Cisco Prime Infrastructure 3.8.
- You use a single session of the migration at a time for the same Cisco Prime Infrastructure server and Cisco DNA Center server pair.
- Once the CMX is migrated to Cisco DNA Center, it will not be managed by Cisco Prime Infrastructure.
- Cisco DNA Center will not migrate the location and civic data of any building which has no floor.
- Any legacy devices which are not supported by Cisco DNA Center chosen for migration will be added to Cisco DNA Center inventory under Device Type column -“Unsupported Cisco Device”.
- Any device which falls under the "Default" group category cannot be migrated to Cisco DNA Center.
- Any devices managed only with SNMP V1 credentials in Cisco Prime Infrastructure cannot be migrated to Cisco DNA Center, whereas SNMP V2 and V3 can be migrated to Cisco DNA Center.
- Only the basic information of the groups will be migrated, but not the rules and profiles assigned to group.
- When you migrate Cisco Catalyst 9800 series wireless controller from Cisco Prime Infrastructure to Cisco DNA Center, it needs the Netconf Port field details in order to move the device to managed state.
- Once the migration is done, the user has to provide the Netconf credentials in the Cisco DNA Center server manually.
- After integration, while upgrading Cisco DNA Center to an unsupported version, error will be thrown as “Unsupported Version” and migration will stop.
- Access Points positioned in the maps in Cisco Prime Infrastructure will migrate to Cisco DNA Center, only if we manage its WLC devices with CLI Credentials.



CHAPTER 19

FAQs: Migrating Cisco Prime Infrastructure to Cisco Catalyst Center using the Prime Data Migration Tool

This chapter provides information on frequently asked questions about migrating data and important points related to migrating Cisco Prime Infrastructure to Cisco Catalyst Center using the Prime Data Migration Tool

- FAQs: Migrating Cisco Prime Infrastructure to Cisco Catalyst Center using the Prime Data Migration Tool, on page 163

FAQs: Migrating Cisco Prime Infrastructure to Cisco Catalyst Center using the Prime Data Migration Tool

Q. What is the Prime Data Migration Tool (PDMT)?

A. The Prime Data Migration Tool (PDMT) is a tool designed to facilitate the migration of data from Cisco Prime Infrastructure to Cisco Catalyst Center. It helps migrate location groups, devices, templates, and other configurations while ensuring that the data is correctly synchronized and backed up.

Q. Why should I use the PDMT to migrate data?

A. The PDMT ensures a smooth and organized migration from Prime Infrastructure to Catalyst Center. It provides several benefits, including:

- Migration of configuration data such as devices, site groups, maps, and templates.
- Options for archiving, restoring, and backing up data.
- Pre-migration assessments via the PDART tool to ensure compatibility with the Cisco Catalyst Center.
- Automatic synchronization and management of migrated data.

Q. What is PDART, and why should I run it before migrating data?

A. PDART (Prime Data Migration Assessment Tool) is a pre-migration assessment tool that evaluates your Cisco Prime Infrastructure deployment and determines if it is compatible with the Cisco Catalyst Center.

FAQs: Migrating Cisco Prime Infrastructure to Cisco Catalyst Center using the Prime Data Migration Tool

Running PDART before initiating the migration ensures that your deployment is compatible and highlights any potential issues, preventing migration failures.

Q. What should I do if I encounter an "Invalid Certificate" error while adding a Cisco Catalyst Center server?

A. If you receive an "Invalid Certificate" error when adding a Cisco Catalyst Center server, it means that the server's certificate is not trusted. To resolve this, you can:

- Click on the error message, which provides an option to remove the invalid certificate.
- After removing the certificate, retry adding the server.

Q. What are the different sync options in the Prime Data Migration Tool?

A. There are two primary synchronization options available:

- Force Sync: Forces a complete sync of the data from Prime Infrastructure to Cisco Catalyst Center. This is typically used after making changes in Prime Infrastructure or after a large-scale migration.
- Dynamic Sync: Automatically synchronizes any updates to migrated groups, devices, and CMX (Cisco Mobility Express) data. This option does not support add, update, or delete operations for maps, CLI templates, or ISE servers, which require a Force Sync.

Q. Can I migrate only selected devices and groups?

A. Yes, you can selectively migrate devices and groups. During the migration process, you can choose which location groups, devices, and other components to migrate. You can also opt to only sync newly selected data by checking the "Sync only new selection" checkbox.

Q. What should I do if the migration tool shows that a group is "Marked for Deletion" or "Marked for Unmapping"?

A.
- **Marked for Deletion**: This label appears when a group is unselected for migration and the "Delete sites in Cisco Catalyst Center for the current Force Sync" option is checked. It indicates that the group will be removed from the Cisco Catalyst Center after the Force Sync.

FAQs: Migrating Cisco Prime Infrastructure to Cisco Catalyst Center using the Prime Data Migration Tool

- **Marked for Unmapping**: This label appears when a group is unselected for migration, but the option to delete sites is not enabled. The group will remain in the Cisco Catalyst Center, but the mapping to Prime Data Migration Tool will be removed.

Q. What if I need to migrate CLI templates?

A. You can migrate both User-Defined CLI Templates and CLI System Templates by selecting the appropriate checkboxes during the migration process. You will then be able to choose which templates to migrate, update, or delete in Cisco Catalyst Center.

Q. Do I need to manually create new sites (if needed) in Cisco Catalyst Center before migrating?

A. No, you can use the Catalyst Center Site Builder tool to create sites directly within Cisco Catalyst Center during the migration process. This allows you to migrate location groups from Prime Infrastructure to Catalyst Center seamlessly, including the option to create campuses, buildings.

Q. How does the tool handle CMX and ISE server migrations?

A. If you enable CMX Settings during migration, CMX data will be pushed to the Catalyst Center floor groups automatically.

A. Similarly, selecting the ISE Settings checkbox will push ISE server details to the Catalyst Center.

A. You can also update the credentials for ISE and CMX servers during the migration process.

Q. What happens if the migration fails

A. If the migration fails, the Prime Data Migration Tool provides error messages that help diagnose the issue. You can check the Job History for more details on the failure, review the logs, and attempt to resolve any issues. It’s recommended to run Force Sync again after troubleshooting.

Q. Can I migrate my data if I have not updated to the latest version of Prime Infrastructure?

A. It’s recommended to use the latest supported versions of Prime Infrastructure (such as 3.9.1 or 3.10.5) to ensure compatibility with the Cisco Catalyst Center. Using older versions may result in compatibility issues or incomplete data migration.

Q. Can I migrate only part of my network configuration from Prime Infrastructure to Cisco Catalyst Center?

A. Yes, the PDMT allows you to selectively migrate specific parts of your network configuration. You can choose which location groups, devices, templates, and other components to migrate. You can even opt to migrate only newly selected data by using the "Sync only new selection" checkbox.

Q. Can I cancel the migration if something goes wrong?

A. Once a migration process (such as Force Sync) is initiated, you cannot cancel it midway. In the JobHistory, you can review the logs, identify the issue, and resolve it before retrying the migration process.

Q. Can I migrate data to multiple Cisco Catalyst Center servers at once?

A. No, you can only integrate one Cisco Catalyst Center server at a time during the migration process. However, you can back up and restore data between Catalyst Center servers using the Multi Server Settings after performing a Force Sync.

Q. What data can I migrate from Prime Infrastructure to Catalyst Center?

A. You can migrate various network configurations, including:

- Location Groups/Site Maps: Buildings, floors, areas, and associated maps.
- Devices: Switches, routers, access points, etc.
- CLI Templates: User-defined and system CLI templates.
- ISE and CMX Servers

FAQs: Migrating Cisco Prime Infrastructure to Cisco Catalyst Center using the Prime Data Migration Tool

- Templates: Both system and user-defined templates used for device configuration.

Q. How do I update civic location information for a site in Catalyst Center?

A. If the site you are migrating does not have civic location details, the migration tool will prompt you to enter these details. You can either provide the Address, or you can manually enter the Latitude and Longitude values for the building. After entering this information, click Save to update the civic location details.

Q. Can I migrate data from a Catalyst Center server that is not part of the same network as Prime Infrastructure?

A. Yes, as long as the Cisco Catalyst Center server is reachable from the network where Prime Infrastructure is hosted, you can migrate data. Ensure that the IP address or hostname of the Catalyst Center server is correctly entered in the migration tool and verify that no firewall or network security policies are blocking communication.

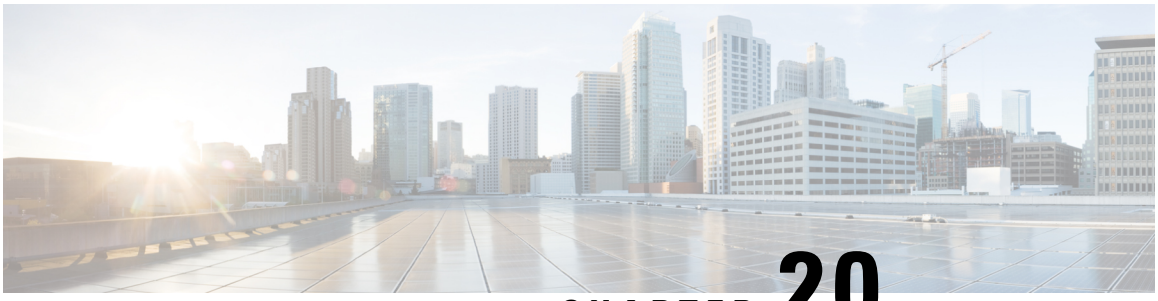
Q. What does the "Marked for Migration" label mean?

A. The Marked for Migration label appears when you select groups or devices in Prime Infrastructure that are set to be migrated to Cisco Catalyst Center. Once the migration is complete, these groups will be labelled as Migrated in the Cisco Catalyst Center, indicating successful data transfer.

Q. How can I troubleshoot migration errors?

A. If you encounter errors during migration, follow these steps:

- Check Migration Logs: Download the migration logs by clicking Download Logs in the top-right corner of the PDMT.
- Review Job History: View detailed job history and error messages for specific jobs by clicking Job History.
- Check Compatibility: Ensure that your Cisco Catalyst Center server meets the required limits for migrated data (e.g., site groups, devices, templates).
- Run PDART: Run the PDART pre-migration assessment tool to verify that your Prime Infrastructure deployment is compatible with Catalyst Center.
- Network Connectivity: Ensure that both Prime Infrastructure and Cisco Catalyst Center are properly connected and accessible over the network.



CHAPTER 20

Cisco Prime Infrastructure and Cisco DNA Center Integration Issues due to TOFU Certificate

- Overview, on page 167
- Configure Certificate Validation, on page 167

Overview

This section describes the Cisco Prime Infrastructure & Cisco DNA Center integration issue that occurs due to Trust-on-first-use (TOFU) certificate mismatch after a new Certificate Signing Request (CSR) is generated from Cisco DNA Center, how to troubleshoot and resolve it.

TOFU certificate received from the Cisco DNA Center is trusted when the connection is made for the first time. If the Cisco DNA Center sends a different certificate for any sub-sequent connection, the connection will be rejected, which causes integration failure between Prime Infrastructure server and Cisco DNA Center.

The certificate on the remote host (Cisco DNA Center) to which Cisco Prime Infrastructure is connected can change if a new certificate is generated or if the server is deployed again on the VM host (Cisco DNA Center).

Configure Certificate Validation

You can configure the certificate validation through command line interface or user interface. The current TOFU certificates on Prime Infrastructure need to be listed, the old certificate entry for the corresponding Cisco DNA Center from the list should be identified and removed before you attempt the integration from Cisco DNA Center again.

View Certificate Validation List using CLI

Use the following command to view the certificate validation list:

```
ncs certvalidation tofu-certs listcerts
```

Example:

```
pi-system-184/admin# ncs certvalidation tofu-certs listcerts
host=xx.xxx.xxx.xxx_443;  subject=CN = kong
host=yy.yyy.yyy.yyy_443;  subject=CN = kong
```

Delete Certificate using CLI

Use the following command to delete the certificate:

```
ncs certvalidation tofu-certs deletecert host <xx.xxx.xxx_443>
```

Example

```
pi-system-184/admin# ncs certvalidation tofu-certs deletecert host xx.xxx.xxx.xxx_443
```

Verify Certificate using CLI

Use the following command to verify the new certificate:

```
ncs certvalidation tofu-certs listcerts
```

After old certificate deletion and verification, you can reinitialize Prime Infrastructure and DNA Center data migration to generate new certificate. For more information, see Reinitialize Prime Infrastructure and DNA Center Data Migration, on page 168.

View Certificate Validation List using User Interface

Use the following procedure to view the certificate validation list:

Procedure

Step 1 In Cisco Prime Infrastructure, choose **Administration > Settings > Certificate > X509 Certificate Trust > Pinned TOFU Certificate**.

Step 2 Select the Cisco DNA Center Server IP address from the certificate list and verify the Serial Number.

Delete Certificate using User Interface

Use the following procedure to view the certificate validation list:

Procedure

Step 1 In Cisco Prime Infrastructure, choose **Administration > Settings > Certificate > X509 Certificate Trust > Pinned TOFU Certificate**.

Step 2 Select the Cisco DNA Center Server IP address and click the cross icon to delete the certificate.

Reinitialize Prime Infrastructure and DNA Center Data Migration

Use this procedure to reinitialize Prime Infrastructure and DNA Center data migration to generate new certificate and check for server reachability.

Procedure

Step 1 From 3.10.1, Click **Prime Data Migration Tool** in the **Mega Menu** page.

Or

Launch Prime Data Migration Tool from the Getting Started page. Choose **Settings** > **Getting Started** > **Prime Data Migration Tool**, and then click **Launch Prime Data Migration Tool** to open **Prime Infrastructure - Prime Data Migration Tool** page.

For 3.9 and 3.10, you can either:

Click **Cisco DNA Center coexistence** in the Mega Menu page.

or

You can also launch Cisco DNA Center coexistence from the Getting Started page. Choose **Settings > Getting Started > Cisco DNA Center coexistence**, and then click **Launch Cisco DNA Center coexistence** to open **Prime Infrastructure - Cisco DNA Center Coexistence** page.

For 3.8 and below:

Choose **Administration** > **Settings** > **System Settings** > **General** > **Cisco DNA Center coexistence**, and then click **Launch Cisco DNA Center coexistence** to open **Prime Infrastructure - Cisco DNA Center coexistence** page.

Step 2 Click **Add Cisco DNA Center** Server.

Step 3 Enter the following Cisco DNA Center server details:

a) Server IP Address or Hostname
b) Username
c) Password
d) Confirm Password

Step 4 Click **Save**, to check server reachability.