

Upgrade the Extreme Management Center to ExtremeCloud IQ – Site Engine version 21.11 Air Gap Deployment

Quick Guide

Abstract: This document describes the necessary steps the admin should accomplish to upgrade the existing Extreme Management Center to the ExtremeCloud IQ – Site Engine in air gap deployment mode.

Published: December 2021

Extreme Networks, Inc. 145 Rio Robles San Jose, California 95134 Phone / +1 408.579.2800 Toll-free / +1 888.257.3000 www.extremenetworks.com

© 2012–2021 Extreme Networks, Inc. All Rights Reserved.

AccessAdapt, Alpine, Altitude, BlackDiamond, Direct Attach, EPICenter, ExtremeWorks Essentials, Ethernet Everywhere, Extreme Enabled, Extreme Ethernet Everywhere, Extreme Networks, Extreme Standby Router Protocol, Extreme Turbodrive, Extreme Velocity, ExtremeWare, ExtremeWorks, ExtremeXOS, Go Purple Extreme Solution, ExtremeXOS ScreenPlay, ReachNXT, Ridgeline, Sentriant, ServiceWatch, Summit, SummitStack, Triumph, Unified Access Architecture, Unified Access RF Manager, UniStack, XNV, the Extreme Networks logo, the Alpinelogo, the BlackDiamond logo, the Extreme Turbodrive logo, the Summit logos, and the Powered by ExtremeXOS logo are trademarks or registered trademarks of Extreme Networks, Inc. or its subsidiaries in the United States and/or other countries.

sFlow is the property of InMon Corporation. Specifications are subject to change without notice.

For additional information on Extreme Networks trademarks, see <u>www.extremenetworks.com/company/legal/trademarks</u>.

All other registered trademarks, trademarks, and service marks are the property of their respective owners.

Table of Contents

Topics And Order Of Steps	
Release Notes And Documentation4	
Convert the Extreme Management Center Licenses To Subscriptions	
Downloading Upgrade Binaries of ExtremeCloud IQ – Site Engine And Component	S
Upgrade the Extreme Management Center To the Site Engine	
Generate a License File at Extreme Portal 10	
Upgrade ExtremeAnalytics & ExtremeControl Engines And Fabric Manager(s) And GIM(s)	
Additional Resources	

Topics And Order Of Steps

There are two deployment scenarios available for ExtremeCloud IQ – Site Engine:

- Connected deployment mode:
 - o Internet connectivity is required
 - ExtremeCloud IQ is a licensing authority
 - ExtremeCloud IQ Site engine is integrated with ExtremeCloud IQ
- Air gap deployment mode:
 - o Internet connectivity is not required
 - License file needs to be generated
 - Benefits of ExtremeCloud IQ are not available

There are the following steps:

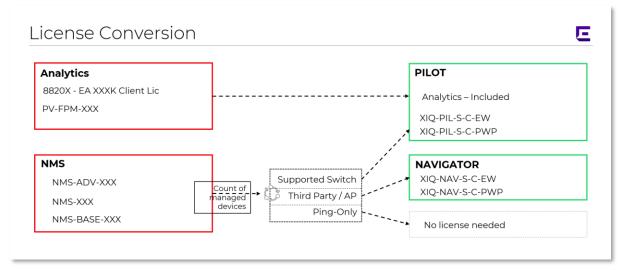
- Read the Release Notes and related documentation.
- Convert the perpetual licenses to the subscription-based right to use. (The same procedure applies for Extreme Management Center subscriptions also).
- Download the upgrade binaries of ExtremeCloud IQ Site Engine and components.
- Do not continue to the next steps without Pilot subscriptions.
- Upgrade the Extreme Management Center to the ExtremeCloud IQ Site Engine.
- Generate the license file and insert it to the ExtremeCloud IQ Site Engine.
- Upgrade ExtremeAnalytics & ExtremeControl engines and Fabric Manager(s) and GIM(s).

Release Notes And Documentation

- Read carefully the <u>Release Notes</u> there is a lot of important information.
- Check the new licensing.
- Check what is ExtremeCloud IQ Site Engine sending to ExtremeCloud IQ = <u>communication overview</u> in the connected deployment.
- Upgrade to ExtremeCloud IQ Site Engine version 21.11.10. is supported from Extreme Management Center 8.5.5 and 8.5.6 and 8.4.4 and ExtremeCloud IQ – Site Engine 21.4 and 21.9. More details <u>here</u>.
- Check the <u>Hardware</u> and <u>Operating System</u> requirements.
- Follow the pre-installation checklist.

Convert the Extreme Management Center Licenses To Subscriptions

- ExtremeCloud IQ Site Engine requires Pilot or Navigator subscriptions.
- Subscriptions are consumed through connection to ExtremeCloud IQ.
- Contact the local Extreme Networks representative to transition from support contract model to subscription model. Typically there is no additional cost for the transition. There is a procedure in place, you will be asked for:
 - Fill the form with details
 - Run the workflow to calculate the appropriate number of Pilot & Navigator licenses or export from the Extreme Management Center
 - Planned Upgrades or Expansion
 - o Planned new Deployments and Hardware Refreshes
 - o Existing service contracts (from the service team)
- The result is the appropriate number of Pilot & Navigator entitlements available through your Extreme Portal account.



Downloading Upgrade Binaries of ExtremeCloud IQ – Site Engine And Components

1. Login to the Extreme Portal

E Extreme networks ADVANCE WITH US Extreme Portal
Please review the Extreme Portal Help article if you have questions or issues logging in.
Email
Password
Log In Remember me
Reset Password / Forgot Password
Create a new Extreme Portal account
Extreme Networks, Inc. employee? Log In

2. Select Products -> ExtremeCloud -> ExtremeCloud IQ - Site Engine

Quick Guide – Upgrade Extreme Management Center to ExtremeCloud IQ – Site Engine in Air Gap Deployment Mode

Extreme Portal	Support Products	Partners	
ch			
Oducts Home wse all Extreme Products by Pro LL PRODUCTS PRODUCTS A-			
Automation	ExtremeCloud		
ExtremeAnalytics		e cloud-based network management solut lesigned and optimized to take advantage	tion offered by Extreme Networks as a of the elasticity, resiliency, and scalability
ExtremeCampus		rs distributed strategically for worldwide a	
ExtremeCloud	A3 • ExtremeCloud™ A3	ExtremeCloud Edge • ExtremeCloud Edge	ExtremeCloud IQ On Premise • ExtremeCloud™ IQ On Premises
ExtremeControl	Applications AirDefense Base 	ExtremeCloud IQ • ExtremeCloud™ IQ	On-Premise / Private Cloud • ExtremeCloud Appliance
ExtremeManagement	Defender for IoT Scheduler for ExtremeCloud Appliance	ExtremeCloud IQ - Site Engine ● ExtremeCloud™ IQ - Site Engine	
5 /			J

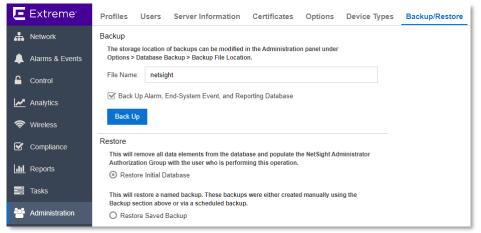
3. Select the version and the component (start with XIQ-SE)

Extreme Portal	Support Products	Partners					
Search							٩
+ Automation + ExtremeAnalytics + ExtremeCampus - ExtremeCloud + A3 + Applications	ExtremeCloud [™] IQ - ExtremeCloud IQ - Site Engine, pa management solution that provid multi-vendor device management ExtremeCloud IQ - Site Engine off flexibility and reduced time-to-be	rt of the ExtremeCloud les you with task autom t across your networks. ers you all the features	ation, access c	ontrol, granular vi ity of Extreme Ma	sibility with real-t	ime analyti	cs, and
+ ExtremeCloud Edge + ExtremeCloud IQ - ExtremeCloud IQ - Site Engine - ExtremeCloud ^w IQ - Site Engine	SOFTWARE / RELEASE NOTES	DOCUMENTATION	ACTIVATION	INSTRUCTIONS		License	Dependency
+ ExtremeCloud IQ On Premise + On-Premise / Private Cloud	Download / Release Name 🔺	File Size	Release Type	Release Date 🔻	EOVM Date	O Tags	► Link ▲
+ ExtremeControl	B 21.11.10.57.Analytics		Major	10.12.2021			
+ ExtremeManagement + ExtremeRouting	C 21.11.10.57.Control		Major	10.12.2021			
+ ExtremeSwitching	C 21.11.10.57.Fabric Mgr		Major	10.12.2021			
+ ExtremeVisibility + ExtremeWireless	🕞 <u>21.11.10.57.XIQ-SE</u>		Major	10.12.2021			

4. Download the upgrade BIN files

Upgrade the Extreme Management Center To the Site Engine

5. Make a backup of your Extreme Management Center.



- 6. Upload the upgrade binary to the operating system (e.g. through SCP)
- 7. Change the permissions on the upgrade file by entering the following command: chmod u+x ExtremeCloudIQSiteEngine_<version>_64bit_install.bin
- 8. Start the Installer.
 - ./ExtremeCloudIQSiteEngine_<version>_64bit_install.bin
- 9. Answer questions required by the wizard.
- 10. Once the installation is completed navigate your web browser to <u>HTTPS://<IP-of-your-server>:8443</u> and login with your credentials.
- 11. Accept the License Agreement
- 12. Select: Enter entitlement(s) for air gapped ExtremeCloud IQ Site Engine

\bigcirc	ExtremeCloud IQ Site Engine		E
		<u>Support</u>	<u>About</u>
	Welcome to ExtremeCloud IQ - Site Engine		
	Select the deployment model that meets the requirements of your ExtremeCloud IQ - Site Engine.		
	Onboard to ExtremeCloud IQ (Start here if you have internet connectivity)		
	Enter entitlement(s) for air gapped ExtremeCloud IQ - Site Engine (Start here if you do not have internet connectivity)		
	Next		

13. Copy the Serial Number (Locking ID)

		Welcome t	o ExtremeC	loud IQ - Si	te Engine	
ick		Air	Gap License	e Entitlemen	ts	
	After adding entit	Enter the entitlementer the table to the table table to the table		·	-	Q - Site Engine.
	ExtremeCloud IQ -	Site Engine serial nui	mber (Locking ID, L	JUID): XIQSE-88BE	3E0218824A9C822	11D9BD06AC199
		D	on't have a license	file? Generate here		
Entitlements						C
	Drag a	nd drop a license en	titlement file into thi	s zone or click here	to paste license en	itlements.
Feature	License Name	Туре	Quantity	Start Date	End Date	Description

14. How to generate a license file is covered in the next chapter.

Generate a License File at Extreme Portal

15. Login to the <u>Extreme Portal</u>, navigate Assets > Cloud Licenses Home > Generate License

Extreme Portal	Support	Products	Downloads	Assets Renewals
Search				Assets Home Licenses Home
Cloud Licenses Home				Cloud Licenses Home
Claim Voucher	Generate L	icense	License T	Transfer Revoke License
Claim your Perpetual Entitlement Vouchers.	Generate licen Navigator & NA		Transfer a lio defective to unit.	cense from Revoke a license from a replacement working unit.
Claim Voucher	Generate	License	Licens	e Transfer Revoke License

16. Fill the form and Submit

Extreme Portal	Generate License Generate license for Pilot, Navigator & NAC products.	×	als	
Search	Pilot License Quantity 5	0		٩
Cloud Licenses Home	Navigator License Quantity 10	0	Revoke License	
Claim your Perpetual Entitlement Vouchers.	NAC License Quantity 500	0	Revoke a license from a working unit.	
Claim Voucher	Locking ID XIQSE-888E3E0218824A9C82211D9BD06AC199	0	Revoke License	
Filter all Entitlements (for example by S Filter results by Entitlement Product	* Vou must check this box to acknowledge you agree to the Terms & Condit	ions		

17. Download the license file

(Generate License	×
G	enerate license for Pilot, Navigator & NAC products.	
	icense is generated successfully. Please click on Download Licenses buttor lownload the license.	n to
	Pilot License Quantity	
	5	0
	Navigator License Quantity	
	10	0
	NAC License Quantity	
	500	0
	Locking ID	
*	XIQSE-88BE3E0218824A9C82211D9BD06AC199	0
*	You must check this box to acknowledge you agree to the Terms & Condition	ons
	Ok Downlond Licenses	

18. Return to the ExtremeCloud IQ – Site Engine and insert the license file.

Quick Guide – Upgrade Extreme Management Center to ExtremeCloud IQ – Site Engine in Air Gap Deployment Mode

	uuements.	to paste license en	his zone or click here	titlement file into t	g and drop a license en	Dra	
	Description	End Date	Start Date	Quantity	Туре	License Name	Feature
í	ExtremeCloud IQ - Site Engine - Access Control	01/01/2022 12:59:00 AM	11/01/2021 01:00:00 AM	500	Subscription	XIQ-NAC-S	PRD-XIQ-NAC-S
Í	ExtremeCloud IQ - Site Engine - Pilot	01/01/2022 12:59:00 AM	11/01/2021 01:00:00 AM	5	Subscription	XIQ-PIL-S-C	PRD-XIQ-PIL-S-C
r i	ExtremeCloud IQ - Site Engine - Navigator	01/11/2022 12:59:00 AM	11/01/2021 01:00:00 AM	10	Subscription	XIQ-NAV-S-C	PRD-XIQ-NAV-S-C

19. Multiple license files can be inserted one by one. Once all license files are inserted select Continue

Upgrade ExtremeAnalytics & ExtremeControl Engines And Fabric Manager(s) And GIM(s)

- Once the server is running the ExtremeCloud IQ Site Engine, the ExtremeAnalytics Engine (Purview) needs to be upgraded. There are two options:
 - Upload the install binary to the ExtremeCloud IQ Site Engine firmware repository and execute the upgrade of the Analytics Engine through the GUI. In this scenario, the SSH credentials must be configured and working.
 - Upload the install binary to the Analytics Engine and start the upgrade procedure through the console.
- The Access Control Engine upgrade procedure is similar to the Analytics Engine. There are two options:
 - Upload the install binary to the ExtremeCloud IQ Site Engine firmware repository and execute the upgrade of the Control Engine through the GUI. In this scenario, the SSH credentials must be configured and working.
 - Upload the install binary to the Access Control Engine and start the <u>upgrade</u> <u>procedure</u> through the console.
- There are two options for the Fabric Manager upgrade procedure:
 - Upload the install binary to the ExtremeCloud IQ Site Engine firmware repository and execute the upgrade of the Fabric Manager through the GUI. The Fabric Manager will be upgraded through the Cloud Connector.
 - Deploy and onboard the new Fabric Manager
- The GIM can be upgraded by deploying the new VM and connecting it to the Access Control Engines. The backup and restore feature of the GIM can be used.

Additional Resources

User Guide online: https://emc.extremenetworks.com/ Firewall settings: https://emc.extremenetworks.com/content/oneview/r_used_ports.html Release Notes: https://www.extremenetworks.com/support/release-notes/