

Stratix Switch

Bulletins 5700, 5400, 5200, 5800

Allen-Bradley
by ROCKWELL AUTOMATION

Migration Guide

Original Instructions

Important User Information

Read this document and the documents listed in the additional resources section about installation, configuration, and operation of this equipment before you install, configure, operate, or maintain this product. Users are required to familiarize themselves with installation and wiring instructions in addition to requirements of all applicable codes, laws, and standards.

Activities including installation, adjustments, putting into service, use, assembly, disassembly, and maintenance are required to be carried out by suitably trained personnel in accordance with applicable code of practice.

If this equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

In no event will Rockwell Automation, Inc. be responsible or liable for indirect or consequential damages resulting from the use or application of this equipment.

The examples and diagrams in this manual are included solely for illustrative purposes. Because of the many variables and requirements associated with any particular installation, Rockwell Automation, Inc. cannot assume responsibility or liability for actual use based on the examples and diagrams.

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Throughout this manual, when necessary, we use notes to make you aware of safety considerations.

WARNING: Identifies information about practices or circumstances that can cause an explosion in a hazardous environment, which may lead to personal injury or death, property damage, or economic loss.

ATTENTION: Identifies information about practices or circumstances that can lead to personal injury or death, property damage, or economic loss. Attentions help you identify a hazard, avoid a hazard, and recognize the consequence.

IMPORTANT Identifies information that is critical for successful application and understanding of the product.

These labels may also be on or inside the equipment to provide specific precautions.

SHOCK HAZARD: Labels may be on or inside the equipment, for example, a drive or motor, to alert people that dangerous voltage may be present.

BURN HAZARD: Labels may be on or inside the equipment, for example, a drive or motor, to alert people that surfaces may reach dangerous temperatures.

ARC FLASH HAZARD: Labels may be on or inside the equipment, for example, a motor control center, to alert people to potential Arc Flash. Arc Flash will cause severe injury or death. Wear proper Personal Protective Equipment (PPE). Follow ALL Regulatory requirements for safe work practices and for Personal Protective Equipment (PPE).

The following icon may appear in the text of this document.

Identifies information that is useful and can help to make a process easier to do or easier to understand.

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About This Publication

This publication serves as a guide for migrating from your legacy Stratix® 5400 or Stratix 5700 switches to Stratix 5200 or Stratix 5800 switches.

Legacy Product	Lifecycle Status	Recommended Replacement Product
Stratix 5400 switches	Discontinued	Stratix 5200 or Stratix 5800 switches
Stratix 5700 switches	Discontinued	Stratix 5200 or Stratix 5800 switches

Stratix 5200 and Stratix 5800 switches have increased power consumption compared to legacy models:

- If migrating from a Stratix 5700 switch to a Stratix 5200 switch or a Stratix 5400 switch to a Stratix 5800 switch, the power terminal block types and cable orientations remain the same.
- If migrating from a Stratix 5700 switch to a Stratix 5800 switch, the power terminal block types and cable orientations are different.

This manual assumes that you understand the following:

- Local area network (LAN) switch fundamentals
- Concepts and terminology of the Ethernet protocol and local area networking

Rockwell Automation recognizes that some of the terms that are currently used in our industry and in this publication are not in alignment with the movement toward inclusive language in technology. We are proactively collaborating with industry peers to find alternatives to such terms and making changes to our products and content. Please excuse the use of such terms in our content while we implement these changes.

Summary of Changes

This publication contains the following new or updated information. This list includes substantive updates only and is not intended to reflect all changes.

Topic	Page
Migrating Switch Configuration with FactoryTalk Vault	27

Integrated Architecture Tools

The Integrated Architecture® tools can help you plan and configure a system, and migrate system architectures. For more information, see Control Systems Configuration Tools.

Migration Services

Throughout the product lifecycle, as products mature, Rockwell Automation helps you get the most out of your current equipment, determine your next steps, and lay out a plan for the transition to newer technology.

Whether you choose to migrate all at once or use our unique, phased approach to help minimize the costs, risks, and complexities that are involved in managing legacy products and systems, Rockwell Automation has the tools and experience to guide you through the transition. For more information, see Migration Solutions Brochure, publication MIGRAT-BR002.

Download Firmware, AOP, EDS, and Other Files

Download firmware, associated files (such as AOP, EDS, and DTM), and access product release notes from the Product Compatibility and Download Center at rok.auto/pcdc.

Additional Resources

These documents contain additional information concerning related products from Rockwell Automation. You can view or download publications at rok.auto/literature.

Resource	Description
Stratix Ethernet Device Specifications Technical Data, publication 1783-TD002	Provides specifications for the switches and other devices.
Stratix 5800 Modular Managed Ethernet Switches Installation Instructions, publication 1783-IN013	Describes how to install Stratix 5800 switches and expansion modules.
Stratix 5200 Ethernet Managed Switches Installation Instructions, publication 1783-IN022	Describes how to install Stratix 5200 managed Ethernet switches.
Stratix 5200 and Stratix 5800 Managed Switches User Manual, publication 1783-UM012	Describes how to configure, manage, and troubleshoot Stratix 5200 and Stratix 5800 managed Ethernet switches and expansion modules.
Stratix Managed Switches User Manual, publication 1783-UM007	Describes how to configure and troubleshoot Stratix 5700 managed Ethernet switches.
EtherNet/IP Network Devices User Manual, publication ENET-UM006	Describes how to configure and use EtherNet/IP™ devices to communicate on the EtherNet/IP network.
Ethernet Reference Manual, publication ENET-RM002	Describes basic Ethernet concepts, infrastructure components, and infrastructure features.
Industrial Automation Wiring and Grounding Guidelines, publication 1770-4.1	Provides general guidelines for installing a Rockwell Automation industrial system.
Product Certifications website, rok.auto/certifications.	Provides declarations of conformity, certificates, and other certification details.

Replacement Considerations

This chapter explores various migration options, feature comparison, hardware considerations, and software considerations to consider when migrating from your legacy Stratix® 5400 or Stratix 5700 switches to Stratix 5200 or Stratix 5800 switches.

Migration Options

Table 1 - Stratix 5400 Switch Migration Options

Stratix 5400 Cat. No.	Migration Options		Notes
1783-HMS4C4CGN	Stratix 5800	1783-MMS10A	Migrate to Stratix 5800 and expansion for 3 DLR rings. If all SFP slots are occupied on the Stratix 5400, add an expansion module.
	Stratix 5200	1783-CMS10DN	
1783-HMS8T4CGN	Stratix 5800	1783-MMS10A with 1783-MMX8TA	Migrate to Stratix 5800 and expansion for 3 DLR rings. If all SFP slots are occupied on the Stratix 5400, add an expansion module.
	Stratix 5200	1783-CMS20DN	
1783-HMS8S4CGN	Stratix 5800	1783-MMS10A with 1783-MMX8SA	
1783-HMS4T4E4CGN	Stratix 5800	1783-MMS10EA	
1783-HMS4S8E4CGN	Stratix 5800	1783-MMS10EA with 1783-MMX8SA	
1783-HMS16T4CGN	Stratix 5800	1783-MMS10A with 1783-MMX8TA	Migrate to Stratix 5800 and expansion for 3 DLR rings. If all SFP slots are occupied on the Stratix 5400, add an expansion module.
	Stratix 5200	1783-CMS20DN	
1783-HMS8TG4CGN	Stratix 5800	1783-MMS10A with 1783-MMX8TA	Migrate to Stratix 5800 and expansion for 3 DLR rings. If all SFP slots are occupied on the Stratix 5400, add an expansion module.
	Stratix 5200	1783-CMS20DN	
1783-HMS8SG4CGN	Stratix 5800	1783-MMS10A with 1783-MMX8SA	
1783-HMS4EG8CGN	Stratix 5800	1783-MMS10EA	
1783-HMS4SG8EG4CGN	Stratix 5800	1783-MMS10EA with 1783-MMX8SA	
		1783-MMS10EA with MMX6T2S **NOTE:** Advanced Features not Available on Expansion Ports	Choose an expansion module based on number of SFP slots and features needed.
1783-HMS16TG4CGN	Stratix 5800	1783-MMS10A with 1783-MMX8TA	Migrate to Stratix 5800 and expansion for 3 DLR rings. If all SFP slots are occupied on the Stratix 5400, add an expansion module.
	Stratix 5200	1783-CMS20DN	
1783-HMS8TG8EG4CGN	Stratix 5800	1783-MMS10EA with 1783-MMX8TA	Choose an expansion module based on number of SFP slots and features needed.
		1783-MMS10EA with 1783-MMX6T2S **NOTE:** Advanced Features not Available on Expansion Ports	
1783-HMS8TG4CGR	Stratix 5800	1783-MMS10AR with 1783-MMX8TA	Choose an expansion module based on number of SFP slots and features needed.
1783-HMS8SG4CGR	Stratix 5800	1783-MMS10AR with 1783-MMX8SA	
1783-HMS4EG8CGR	Stratix 5800	1783-MMS10EAR with 1783-MMX8SA	Choose an expansion module based on number of SFP slots and features needed.
		1783-MMS10EAR with 1783-MMX8TA	
1783-HMS4SG8EG4CGR	Stratix 5800	1783-MMS10EAR with 1783-MMX8SA	
1783-HMS16TG4CGR	Stratix 5800	1783-MMS10AR with 1783-MMX8TA	
1783-HMS8TG8EG4CGR	Stratix 5800	1783-MMS10EAR with 1783-MMX8TA	Choose an expansion module based on number of SFP slots and features needed.
		1783-MMS10EAR with 1783-MMX6T2S **NOTE:** Advanced Features not Available on Expansion Ports	

Feature Comparison

Stratix 5700/Stratix 5200

Stratix 5200 switches include most of the features available in the Stratix 5700 switches and add support for new network protocols, management, and diagnostic capabilities. This table highlights the differences in features between the two platforms.

Table 2 - Stratix 5700 / Stratix 5200 Feature Comparison

Feature	Stratix 5700 Lite Switch	Stratix 5700 Full Switch	Stratix 5200 Base Switch	Stratix 5200 Full Switch	Stratix 5200 Advanced Switch
Catalog Numbers	**1783-BMSxxxL**	**1783-BMSxxxA 1783-BMSxxxP, 1783-BMSxxxPK, 1783-BMSxxxN, 1783-BMSxxxNK**	**1783-CMS6B 1783-CMS10B 1783-CMS20DB**	**1783-CMS6P 1783-CMS10P 1783-CMS10DP 1783-CMS20DP**	**1783-CMS10DN 1783-CMS20DN**
Hardware					
Gigabit ports	2 (select hardware)	2 (select hardware)	2	All Ports	All Ports
SFP or Combo ports	Up to 6 (select hardware)	Up to 6 (select hardware)	2	2	2
Power over Ethernet (PoE) ports	Yes (select hardware)	Yes (select hardware)	No	No	No
Conformal coating	No	Yes (select hardware)	No	No	No
Resiliency					
Spanning Tree (MST)	Yes (default)	Yes (default)	Yes	Yes	Yes
Spanning Tree (RPVST)	Yes	Yes	Yes (default)	Yes (default)	Yes (default)
Resilient Ethernet Protocol (REP)	Yes	Yes	Yes	Yes	Yes
EtherChannel (Link Aggregation)	No	Yes	Yes	Yes	Yes
FlexLinks	No	Yes	No	No	No
Device Level Ring (DLR)	One ring (select hardware) 1783-BMS12T4E2CGL 1783-BMS20CL 1783-BMS20CGL	One ring (select hardware) 1783-BMSxxxP, 1783-BMSxxxPK, 1783-BMSxxxN, 1783-BMSxxxNK 1783-BMS20CA	One ring (select hardware) 1783-CMS20DB	One ring (select hardware) 1783-CMS10DP 1783-CMS20DP	Two rings
Media Redundancy Protocol (MRP)	No	No	Yes	Yes	Yes
Parallel Redundancy Protocol (PRP) RedBox	No	No	No	No	Yes (one channel)
Layer 3 Routing					
Connected Routing (Inter-VLAN routing)	No	Yes	Yes	Yes	Yes
Static routes	No	Yes	Yes	Yes	Yes
Network Services					
Quality of Service (QoS)	No	Yes	Yes	Yes	Yes
Multicast Management (IGMP Snooping)	Yes	Yes	Yes	Yes	Yes
Layer 2 NAT	No	Yes (select hardware) 1783-BMSxxxN, 1783-BMSxxxNK	No	No	Yes
CIP Sync™ (IEEE 1588 PTP)	No	Yes (select hardware) 1783-BMSxxxP, 1783-BMSxxxPK, 1783-BMSxxxN, 1783-BMSxxxNK	No	Yes	Yes
Dynamic Host Configuration Protocol (DHCP) per port	Yes	Yes	Yes	Yes	Yes
IPv6 Support	No	Yes	Yes	Yes	Yes
Security					
Port Security	No	Yes	Yes	Yes	Yes
Access Control Lists (ACL)	No	Yes	Yes	Yes	Yes
TACACS+ and RADIUS authentication	Yes	Yes	Yes	Yes	Yes
IEEE 802.1X	No	Yes	Yes	Yes	Yes
Switch Management and Diagnostics					
Web Interface (HTTPS)	Device Manager	Device Manager	WebUI	WebUI	WebUI
CIP™ (EtherNet/IP™) and Logix AOP	Yes	Yes	Yes	Yes	Yes
Remote Span (RSPAN)	No	Yes	Yes	Yes	Yes
Debug bundle and CLI output using web interface	No	No	Yes	Yes	Yes
Ping and Traceroute	No	No	Yes	Yes	Yes

Stratix 5400/Stratix 5200

Stratix 5200 switches include most of the features available in the Stratix 5400 switches and add support for new network protocols, management, and diagnostic capabilities. This table highlights the differences in features between the two platforms.

Table 3 - Stratix 5400 / Stratix 5200 Feature Comparison

Feature	Stratix 5400 Layer 2 Switch	Stratix 5400 Layer 3 Switch	Stratix 5200 Base Switch	Stratix 5200 Full Switch	Stratix 5200 Advanced Switch
Catalog Numbers	**1783-HMSxxxCGN**	**1783-HMSxxxCGR**	**1783-CMS6B 1783-CMS10B 1783-CMS20DB**	**1783-CMS6P 1783-CMS10P 1783-CMS10DP 1783-CMS20DP**	**1783-CMS10DN 1783-CMS20DN**
Hardware					
Gigabit ports	Up to 20	Up to 20	2	All Ports	All Ports
SFP or Combo ports	Up to 8	Up to 8	2	2	2
Power over Ethernet (PoE) ports	Up to 8	Up to 8	No	No	No
Conformal coating	No	No	No	No	No
Resiliency					
Spanning Tree (MST)	Yes (default)	Yes (default)	Yes	Yes	Yes
Spanning Tree (RPVST)	Yes	Yes	Yes (default)	Yes (default)	Yes (default)
Resilient Ethernet Protocol (REP)	Yes	Yes	Yes	Yes	Yes
EtherChannel (Link Aggregation)	Yes	Yes	Yes	Yes	Yes
FlexLinks	Yes	Yes	No	No	No
Device Level Ring (DLR)	Three rings	Three rings	One ring (select hardware) 1783-CMS20DB	One ring (select hardware) 1783-CMS10DP 1783-CMS20DP	Two rings
Media Redundancy Protocol (MRP)	No	No	Yes	Yes	Yes
Parallel Redundancy Protocol (PRP) RedBox	Yes	Yes	No	No	Yes (one channel)
Layer 3 Routing					
Connected Routing (Inter-VLAN routing)	Yes	Yes	Yes	Yes	Yes
Static routes	Yes	Yes	Yes	Yes	Yes
Dynamic Routing	No	Yes	No	No	No
Network Services					
Quality of Service (QoS)	Yes	Yes	Yes	Yes	Yes
Multicast Management (IGMP Snooping)	Yes	Yes	Yes	Yes	Yes
Layer 2 NAT	Yes	Yes	No	No	Yes
CIP Sync (IEEE 1588 PTP)	Yes	Yes	No	Yes	Yes
Dynamic Host Configuration Protocol (DHCP) per port	Yes	Yes	Yes	Yes	Yes
IPv6 Support	Yes	Yes	Yes	Yes	Yes
Security					
Port Security	Yes	Yes	Yes	Yes	Yes
Access Control Lists (ACL)	Yes	Yes	Yes	Yes	Yes
TACACS+ and RADIUS authentication	Yes	Yes	Yes	Yes	Yes
IEEE 802.1X	Yes	Yes	Yes	Yes	Yes
Switch Management and Diagnostics					
Web Interface (HTTPS)	Device Manager	Device Manager	WebUI	WebUI	WebUI
CIP (EtherNet/IP) and Logix AOP	Yes	Yes	Yes	Yes	Yes
Remote Span (RSPAN)	Yes	Yes	Yes	Yes	Yes
Debug bundle and CLI output using web interface	Yes	Yes	Yes	Yes	Yes
Ping and Traceroute	Yes	Yes	Yes	Yes	Yes

Stratix 5400/Stratix 5800

Stratix 5800 switches include most of the features available in the Stratix 5400 switches and add support for new network protocols, management, and diagnostic capabilities. This table highlights the differences in features between the two platforms.

Table 4 - Stratix 5400 / Stratix 5800 Feature Comparison

Feature	Stratix 5400 Layer 2 Switch	Stratix 5400 Layer 3 Switch	Stratix 5800 Layer 2 Switch	Stratix 5800 Layer 3 Switch	Expansion Module	Advanced Expansion Module
Catalog Numbers	**1783-HMSxxxCGN**	**1783-HMSxxxCGR**	**1783-MMS10 1783-MMS10A 1783-MMS10E 1783-MMS10B 1783-MMS10BE 1783-MMS10EA**	**1783-MMS10R 1783-MSS10AR 1783-MMS10ER 1783-MMS10EAR**	**1783-MMX8T 1783-MMX8E 1783-MMX8S 1783-MMX6T2S 1783-MMX16T 1783-MMX16E 1783-MMX14T2S**	**1783-MMX8EA 1783-MMX8SA 1783-MMX8TA**
Hardware						
Gigabit ports	Up to 20	Up to 20	8	8	Up to 16	Up to 16
SFP or Combo ports	Up to 8	Up to 8	2 GE	2 GE	Up to 8	Up to 8
Power over Ethernet (PoE) ports	Up to 8	Up to 8	Select SKUs: 8	Select SKUs: 8	Up to 16	Up to 16
Conformal coating	No	No	No	No	No	No
Resiliency						
Spanning Tree (MST)	Yes (default)	Yes (default)	Yes	Yes	Yes - with switch	Yes - with switch
Spanning Tree (RPVST)	Yes	Yes	Yes (default)	Yes (default)	Yes (default) - with switch	Yes (default) - with switch
Resilient Ethernet Protocol (REP)	Yes	Yes	Yes	Yes	Yes - with switch	Yes - with switch
EtherChannel (Link Aggregation)	Yes	Yes	Yes	Yes	Yes - with switch	Yes - with switch
FlexLinks	Yes	Yes	No	No	No	No
Device Level Ring (DLR)	Three rings	Three rings	Select SKUs: 3 Rings	Select SKUs: 3 Rings	No	Yes
Media Redundancy Protocol (MRP)	No	No	Yes	Yes	Yes - with switch	Yes - with switch
Parallel Redundancy Protocol (PRP) RedBox	Yes	Yes	Select SKUs	Select SKUs	No	Yes
Routing						
Connected Routing (Inter-VLAN routing)	Yes	Yes	Yes	Yes	Yes - with switch	Yes - with switch
Static routes	Yes	Yes	Yes	Yes	Yes - with switch	Yes - with switch
Dynamic Routing	No	Yes	No	Yes	Yes - with Layer 3 Switch	Yes - with Layer 3 Switch
Network Services						
Quality of Service (QoS)	Yes	Yes	Yes	Yes	Yes - with switch	Yes - with switch
Multicast Management (IGMP Snooping)	Yes	Yes	Yes	Yes	Yes - with switch	Yes - with switch
Layer 2 NAT	Yes	Yes	Select SKUs	Select SKUs	No	No
CIP Sync (IEEE 1588 PTP)	Yes	Yes	Yes	Yes	Yes - with switch	Yes - with switch
Dynamic Host Configuration Protocol (DHCP) per port	Yes	Yes	Yes	Yes	Yes - with switch	Yes - with switch
IPv6 Support	Yes	Yes	Yes	Yes	Yes - with switch	Yes - with switch
Security						
Port Security	Yes	Yes	Yes	Yes	Yes - with switch	Yes - with switch
Access Control Lists (ACL)	Yes	Yes	Yes	Yes	Yes - with switch	Yes - with switch
TACACS+ and RADIUS authentication	Yes	Yes	Yes	Yes	Yes - with switch	Yes - with switch
IEEE 802.1X	Yes	Yes	Yes	Yes	Yes - with switch	Yes - with switch
Switch Management and Diagnostics						
Web Interface (HTTPS)	Device Manager	Device Manager	WebUI	WebUI	WebUI - with switch	WebUI - with switch
CIP (EtherNet/IP) and Logix AOP	Yes	Yes	Yes	Yes	Yes - with switch	Yes - with switch
Remote Span (RSPAN)	Yes	Yes	Yes	Yes	Yes - with switch	Yes - with switch
Debug bundle and CLI output using web interface	Yes	Yes	Yes	Yes	Yes - with switch	Yes - with switch
Ping and Traceroute	Yes	Yes	Yes	Yes	Yes - with switch	Yes - with switch

Compatible SD Cards

Table 5 - Stratix Switch SD Card Compatibility

Stratix Switch	SD Card Catalog Number
Stratix 5200	1784-SDHC8
Stratix 5400	1784-SD1
Stratix 5700	1784-SD1
Stratix 5800	1784-SDHC8

SFP Support

Stratix switches support almost all of the same Small Form-factor Pluggable (SFP) modules. Stratix 5800 and Stratix 5200 switches do not support SFP catalog number 1783-SFP100T.

Table 6 - Stratix 5700 / Stratix 5200 / Stratix 5400 / Stratix 5800 SFP Support

SFP Catalog Number	Stratix 5700	Stratix 5200	Stratix 5400	Stratix 5800
1783-SFP100FX	Yes	Yes	Yes	Yes
1783-SFP100LX	Yes	Yes	Yes	Yes
1783-SFP100EXC	Yes	Yes	Yes	Yes
1783-SFP100ZXC	Yes	Yes	Yes	Yes
1783-SFP100T	Yes	No	Yes	No
1783-SFP1GSX	Yes	Yes	Yes	Yes
1783-SFP1GLX	Yes	Yes	Yes	Yes
1783-SFP1GEXE	Yes	Yes	Yes	Yes
1783-SFP1GZX	Yes	Yes	Yes	Yes
1783-SFP1GTE	Yes	Yes	Yes	Yes

Power Input and Consumption

Stratix 5200 and Stratix 5800 switches have increased power consumption compared to legacy models:

- If migrating from a Stratix 5700 switch to a Stratix 5200 switch or a Stratix 5400 switch to a Stratix 5800 switch, the power terminal block types and cable orientations remain the same.
- If migrating from a Stratix 5700 switch to a Stratix 5800 switch, the power terminal block types and cable orientations are different.

Table 7 - Stratix 5700 Switch Power Specifications

Attribute	1783-BMS4S2SGL 1783-BMS4S2SGA	1783-BMS06SL 1783-BMS06SA 1783-BMS06TL 1783-BMS06TA 1783-BMS06SGL 1783-BMS06SGA 1783-BMS06TGL 1783-BMS06TGA	1783-BMS10CL 1783-BMS10CA 1783-BMS10CGL 1783-BMS10CGA	1783-BMS10CGN 1783-BMS10CGP	1783-BMS20CL 1783-BMS20CA 1783-BMS20CGL 1783-BMS20CGP 1783-BMS20CGN 1783-BMS20CGPK 1783-BMS12T4E2CGL 1783-BMS12T4E2CGP 1783-BMS12T4E2CGNK
Power Input	0.5…2.0 A @ 12…48V DC				
Power Consumption	14 W max	15 W max	17 W max	20 W max	30 W max

Table 8 - Stratix 5200 Switch Power Specifications

Attribute	1783-CMS6B 1783-CMS6P	1783-CMS10B 1783-CMS10P	1783-CMS10DP 1783-CMS10DN	1783-CMS20DB 1783-CMS20DP 1783-CMS20DN
Power Input	1.6 A @ 12V DC 0.8 A @ 24V DC 0.4 A @ 48V DC	2.0 A @ 12V DC 1.0 A @ 24V DC 0.5 A @ 48V DC	3.2 A @ 12V DC 1.6 A @ 24V DC 0.8 A @ 48V DC	4.2 A @ 12V DC 2.6 A @ 24V DC 1.3 A @ 48V DC
Power Consumption	14 W max	17.7 W max	28 W max	36.7 W max

Table 9 - Stratix 5400 Switch Power Specifications

Attribute	1783-HMS8T4CGN, 1783-HMS16T4CGN 1783-HMS8TG4CGN 1783-HMS8TG4CGR	1783-HMS4C4CGN 1783-HMS16TG4CGN 1783-HMS16TG4CGR	1783-HMS8S4CGN 1783-HMS8SG4CGN 1783-HMS8SG4CGR	1783-HMS4T4E4CGN	1783-HMS4S8E4CGN 1783-HMS8TG8EG4CGN 1783-HMS4SG8EG4CGN 1783-HMS4EG8CGN 1783-HMS4SG8EG4CGR 1783-HMS8TG8EG4CGR 1783-HMS4EG8CGR
Power Input	3.7 A max @ 12…54V DC	4.3 A max @ 12…54V DC	5.0 A max @ 12…54V DC	3.7 A max @ 12…54V DC 44…54V DC for PoE 50…54V DC for PoE+ or a combination of PoE and PoE+	4.3 A max @ 12…54V DC 44…54V DC for PoE 50…54V DC for PoE+ or a combination of PoE and PoE+
Power Consumption	35 W @ 24V DC @ 40 °C (104 °F)	40 W @ 24V DC @ 40 °C (104 °F)	42 W @ 24V DC @ 40 °C (104 °F)	35 W @ 24V DC @ 40 °C (104 °F) PoE power at 50V: 120 W	40 W @ 24V DC @ 40 °C (104 °F) PoE power at 50V: 124 W

Table 10 - Stratix 5800 Switch Power Specifications

Attribute	1783-MMS10BE	1783-MMS10E 1783-MMS10ER	1783-MMS10EA 1783-MMS10EAR	1783-MMS10 1783-MMS10R	1783-MMS10A 1783-MMS10AR	1783-MMS10B
Power Input	12…54V DC, 5.5 A 44…54V DC for PoE 50…54V DC for PoE+ or a combination of PoE and PoE+	12…54V DC, 10.6 A 44…54V DC for PoE 50…54V DC for PoE+ or a combination of PoE and PoE+	12…54V DC, 10.7 A 44…54V DC for PoE 50…54V DC for PoE+ or a combination of PoE and PoE+	12…48V DC, 4.0 A	12…54V DC, 6.4 A	12…48V DC, 2.2 A
Power Consumption	23 W @ 24 DC Max PoE power @ 50V: 240 W	23 W @ 24 DC Max PoE power @ 50V: 240 W	36 W @ 24 DC Max PoE power @ 50V: 240 W	23 W max	36 W max	23 W max

For more information see the Stratix 5200 and Stratix 5800 Switches User Manual, publication 1783-UM012 and the Stratix Managed Switch User Manual, publication 1783-UM007.

Hardware Considerations

This table highlights the overall differences in hardware capability between all platforms.

Table 11 - Stratix Switch Hardware Capability Comparison

Hardware Capability	Stratix 5700	Stratix 5400	Stratix 5200	Stratix 5800
Total Ports	Up to 20	Up to 20	Up to 20	Up to 26
Copper Ports	6...20	8...20	4...18	8...26
Fiber Ports	Up to 4 SFP slots	Up to 12 SFP slots	Up to 2 SFP slots	Up to 10 SFP slots
Gigabit Ports	Up to 2	Up to 20	Up to 20	All
PoE Ports	Up to 4	Up to 8	-	Up to 24
Memory Card	SD card (optional)	SD card (included)	SD card (optional)	SD card (optional)
Operating Temperature	-40 to 60 C	-40 to 70 C	-40 to 60 C	-40 to 60 C
Environmental Rating	IP30	IP30	IP30	IP30

Certifications and Standards

Stratix 5200 and Stratix 5800 switches match the environmental specifications and regulatory standards of legacy Stratix platforms. Stratix 5200 and Stratix 5800 switches support IEC-62443-4-2 SL1 and SL2 security requirements if certain security features are configured in the switch.

Dimensions and Weight

Stratix 5200 and Stratix 5800 switches have reduced form factor and weight compared to legacy switches.

Table 12 - Stratix 5700 Dimensions and Weight

Stratix 5700	Dimensions[1]			Weight
	Height	Width	Depth	
1783-BMS06SL, 1783-BMS06SA, 1783-BMS06TL, 1783-BMS06TA, 1783-BMS06SGL, 1783-BMS06SGA, 1783-BMS06TGL, 1783-BMS06TGA	12.95 cm 5.1 in.	7.48 cm 2.94 in.	10.92 cm 4.3 in.	1.11 kg 2.45 lb
1783-BMS4S2SGL, 1783-BMS4S2SGA	12.95 cm 5.1 in.	8 cm 3.15 in.	11.45 cm 4.51 in.	1.22 kg 2.69 lb
1783-BMS10CL, 1783-BMS10CA, 1783-BMS10CGL, 1783-BMS10CGA	12.95 cm 5.1 in.	9.14 cm 3.6 in.	10.92 cm 4.3 in.	1.25 kg 2.75 lb
1783-BMS10CGN, 1783-BMS10CGP	12.95 cm 5.1 in.	8 cm 3.15 in.	12.83 cm 5.05 in.	1.38 kg 3.05 lb
1783-BMS20CL, 1783-BMS20CA, 1783-BMS20CGL, 1783-BMS20CGP, 1783-BMS20CGN, 1783-BMS20CGPK, 1783-BMS12T4E2CGL, 1783-BMS12T4E2CGP, 1783-BMS12T4E2CGNK	12.95 cm 5.1 in.	12.7 cm 5 in.	12.83 cm 5.05 in.	2.04 kg 4.5 lb

(1) Switch only, not including front connectors and DIN rail mounting bracket.

Table 13 - Stratix 5200 Dimensions and Weight

Stratix 5200	Dimensions[1]			Weight
	Height	Width	Depth	
1783-CMS6B, 1783-CMSS6P	12.7 cm 5 in.	6.48 cm 2.55 in.	11 cm 4.33 in.	0.73 kg 1.6 lb
1783-CMS10B, 1783-CMS10P	12.7 cm 5 in.	7.62 cm 3 in.	11 cm 4.33 in.	0.86 kg 1.9 lb
1783-CMS10DP, 1783-CMS10DN	12.7 cm 5 in.	7.62 cm 3 in.	12.9 cm 5.08 in.	1.04 kg 2.3 lb
1783-CMS20DB, 1783-CMS20DP, 1783-CMS20DN	12.7 cm 5 in.	10.92 cm 4.3 in.	12.9 cm 5.08 in.	1.27 kg 2.8 lb

(1) Switch only, not including front connectors and DIN rail mounting bracket.

Table 14 - Stratix 5400 Dimensions and Weight

Stratix 5400	Dimensions[1]			Weight
	Height	Width	Depth	
1783-HMS4C4CGN, 1783-HMS4EG8CGN, 1783-HMS4EG8CGR, 1783-HMS4S8E4CGN, 1783-HMS4SG8EG4CGN, 1783-HMS4SG8EG4CGR, 1783-HMS4T4E4CGN, 1783-HMS8S4CGN, 1783-HMS8SG4CGN, 1783-HMS8SG4CGR, 1783-HMS8T4CGN, 1783-HMS8TG4CGN, 1783-HMS8TG4CGR, 1783-HMS8TG8EG4CGN, 1783-HMS8TG8EG4CGR, 1783-HMS16T4CGN, 1783-HMS16TG4CGN, 1783-HMS16TG4CGR	15.54 cm 6.12 in.	15.54 cm 6.12 in.	12.92 cm 5.09 in.	2.88 kg 6.35 lb

(1) Switch only, not including front connectors and DIN rail mounting bracket.

Table 15 - Stratix 5800 Dimensions and Weight

Stratix 5800	Dimensions[1]			Weight
	Height	Width	Depth	
Switches				
1783-MMS10, 1783-MMS10A, 1783-MSS10AR, 1783-MMS10E, 1783-MMS10B, 1783-MMS10BE, 1783-MMS10R, 1783-MMS10ER	15.24 cm 6 in.	9.14 cm 3.6 in.	13.46 cm 5.3 in.	1.7 kg
1783-MMS10EA 1783-MMS10EAR	15.24 cm 6 in.	11.17 cm 4.4 in.	13.46 cm 5.3 in.	1.7 kg
Expansion Modules				
1783-MMX8T, 1783-MMX8E, 1783-MMX8EA, 1783-MMX8S 1783-MMX8SA, 1783-MMX8TA	15.24 cm 6 in.	6.6 cm 2.6 in.	13.46 cm 5.3 in.	0.91 kg
1783-MMX14T2S	15.2 cm 5.98 in.	9.10 cm 3.58 in.	13.46 cm 5.3 in.	1.2 kg
1783-MMX6T2S, 1783-MMX16T, 1783-MMX16E	15.24 cm 6 in.	7.22 cm 3.4 in.	13.46 cm 5.3 in.	1.2 kg

(1) Switch only, not including front connectors and DIN rail mounting bracket.

Installation Considerations

All Stratix switches must be mounted in the upright orientation and cannot be mounted sideways on a vertical DIN rail:

- Stratix 5800 switches have dual power inputs for redundant power supply
- Stratix 5200 switches have a mesh design on the top and bottom for optimal heat dissipation and IP30 rated enclosure.
- Stratix 5200 switches have an easy to use, compressible DIN rail mounting clip.
- Minimum clearance from any surface of the Stratix 5700, Stratix 5400, and Stratix 5800 switches is 50.8 mm (2.0 in.)
- Minimum clearance from any surface of a Stratix 5200 switch is 25.4 mm (1.0 in.)

Gigabit Ethernet

Stratix 5200 and Stratix 5800 switches offer increased gigabit port options:

- Stratix 5200 switches are available with up to 20-gigabit Ethernet ports with a minimum of 2-gigabit ports
- Stratix 5800 switches are available with a minimum of 10-gigabit Ethernet ports and up to 26-gigabit ports when paired with certain expansion modules

Power over Ethernet (PoE)

Stratix 5800 switches have up to 24 PoE ports.

Software Considerations

This section provides an overview of the differences in software features for Stratix switches. See Chapter 2 for how to document the existing network settings and recommended order of configuration when replacing an existing switch with a Stratix 5200 or Stratix 5800 switch.

Cisco IOS XE

Stratix 5200 and Stratix 5800 switches run Cisco IOS® XE software with new features that are designed to automate onboarding, configuration, monitoring, and optimization:

- Enhanced platform integrity and security features such as secure boot, image signing, hardware authenticity check, and Cisco® Trust Anchor Module (TAM) for secure storage
- Modular architecture that allows updating features / protocols via install packages
- Provides API driven configuration with open APIs and data models (NetConf)

WebUI Overview

The Stratix 5200 and Stratix 5800 switches use WebUI, which is an improved web-based management interface for easier and faster configuration of the switch. The WebUI has a new menu structure and workflow. It is highly customizable with fast navigation and extended troubleshooting tools.

WebUI allows for high level of customization. Some customizations include the following:

- Enable or disable items in the dashboard
- Select any menu page as the default landing page after sign in
- Filter tables by values
- Select the default number of table entries and visible columns

WebUI Configuration

There are several configuration differences in the Device Manager when you are configuring a Stratix 5200 or Stratix 5800 switch. These differences include the following:

- Stratix 5200 or Stratix 5800 switch WebUI are NOT saved automatically to the startup configuration. Any changes must be saved to be retained after restart. Differences in settings can be reviewed before saving.
- Most of the Ethernet Port settings are consolidated on the Ethernet Ports page under General or Advanced tab, with many new settings available in WebUI. For example, the Ethernet Ports > Advanced page allows applying ACL, Port Security, Port Thresholds, input and output QoS policy, 802.1X and more to a port. Previously, these settings were on separate pages or not available in Device Manager.
- Many settings that are related to a switch item, such as port or VLAN, are consolidated in one place. Some per-port settings can be configured in multiple places depending on the workflow.
- A Smartport role can be applied to multiple ports simultaneously, including VLAN settings.
- Clicking an item in a table typically opens an Edit Configuration page for the item, such as port or VLAN settings.
- Many configuration pages include links to other pages to configure prerequisite items, for example to add an ACL before assigning it to a port.
- More advanced settings are available in WebUI. The new Administration – command-line interface page allows you to apply CLI commands in WebUI if necessary. Other items in Administration include DHCP pools, time synchronization, SNMP, and other switch management protocols.
- The workflows for configuring some features have changed as described in the following sections.

Startup and Running Configuration

Stratix 5700, Stratix 5400, Stratix 5200, and Stratix 5800 switches all use the same configuration files:

- The Startup configuration file (startup-config) is used during system startup to configure the software. The startup config file is stored in the internal flash. The file name is different between platforms. For the Stratix 5700 and Stratix 5400 switches, the name is "config.text", and for the Stratix 5200 and Stratix 5800 switches, the name is "startup-config.cfg."

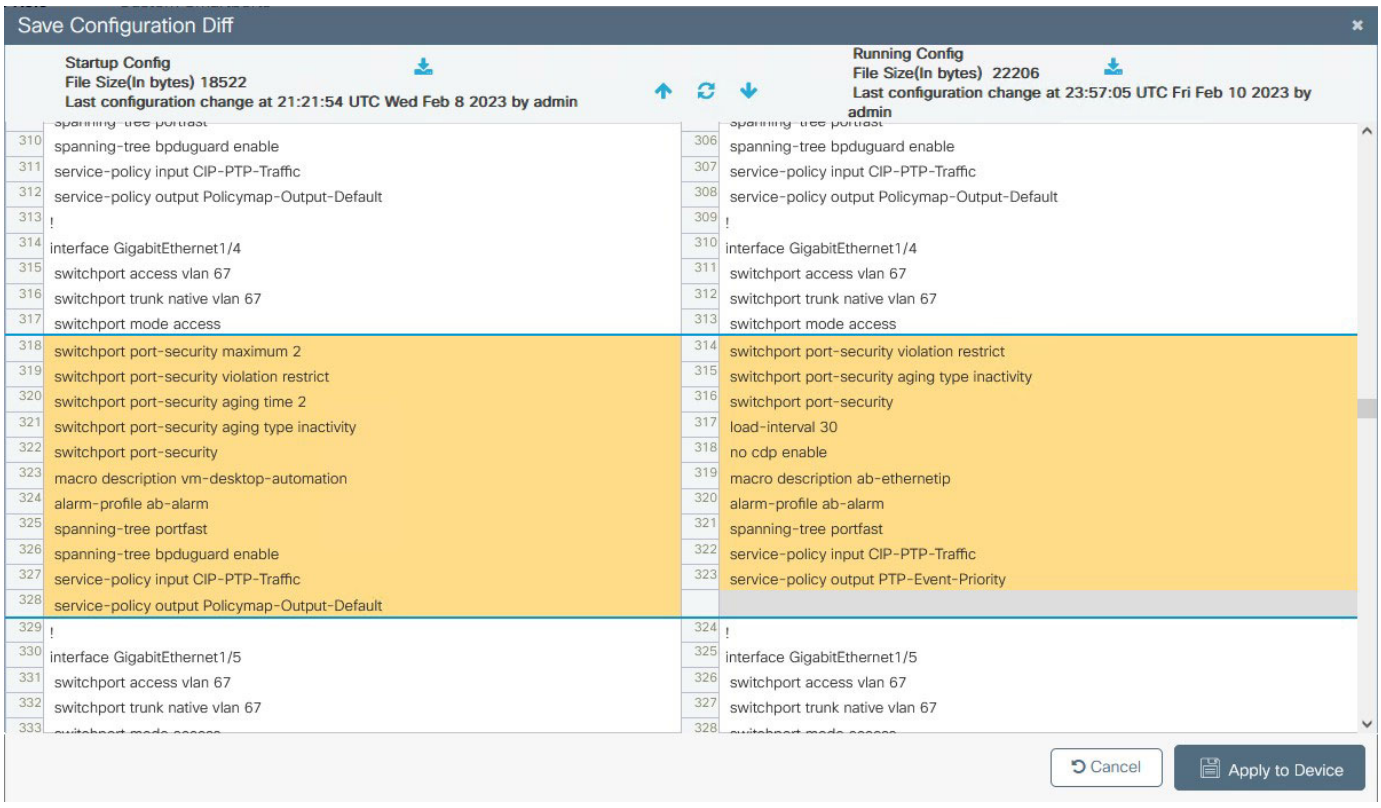
The Running configuration file (running-config) contains the current configuration of the software in memory.

The two configuration files can differ. For example, you can change the configuration for a short time rather than permanently. The Stratix 5200 or Stratix 5800 switch WebUI and the Stratix 5700 or Stratix 5400 switch Device Manager differ in how communications are handled.

IMPORTANT Changes that are made in the Stratix 5700 or Stratix 5400 switch Device Manager are applied immediately to the switch running configuration and the startup configuration after clicking Submit.

Changes that are made in the Stratix 5200 or Stratix 5800 switch WebUI are not saved automatically to the startup configuration but only applied to the running configuration. These changes must be saved explicitly to the startup using the Save Configuration button.

- Changes that are made to the Running configuration and not saved to the startup are lost after you restart the switch.
- Before saving the running configuration to the startup, you can review and compare differences using the Save Configuration Difference page.



Express Setup and Initial Configuration

Express Setup

Express Setup on a Stratix 5200 or Stratix 5800 switch is similar to the legacy Stratix 5700 or Stratix 5400 switch platform. Be aware of the following differences:

- The default IP address is 192.168.1.254.
- The default username is admin, and the default password is switch.
- The date and time can be set by an NTP server on the network or manually during Express Setup.
- Individual ports can be assigned to or removed from the Management VLAN during Express Setup. By default, all ports are assigned.
- The configuration summary and CLI preview are available before submitting changes.

VLAN Configuration

The workflow to configure VLANs and assign ports to a VLAN has changed.

1. When creating a VLAN, use the VLAN tab on the Configuration – Layer 2 – VLAN page.
2. Configure VLAN ID.
3. Assign VLAN Name.
4. Assign multiple ports to a VLAN.

   Ports can also be assigned to a VLAN later using Ethernet Ports or Smartports pages.

If necessary, use the SVI page to configure the Switch Virtual Interface (SVI) for the new VLAN, including IP address, mask, Static or DHCP mode, and advanced VLAN settings such as ACL and DHCP relay.

A new VLAN can also be added by configuring an SVI first (with or without an IP address).

Resiliency Solution Considerations

Spanning Tree Protocol

The default Spanning Tree mode on a Stratix 5200 or Stratix 5800 switch after running Express Setup is Rapid per VLAN Spanning Tree Plus (Rapid PVST+) based on the IEEE 802.1w standard. This differs from a legacy Stratix switch where the default mode is Multiple Spanning Tree (MST) based on IEEE 802.1:

- Make sure that the Spanning Tree mode on the new switch matches the existing mode in the network (either MST or RPVST+). After Express Setup, configure the correct mode in the Stratix 5200 or Stratix 5800 switch WebUI using Configuration – Layer 2 – Spanning Tree page.

  You can verify the existing STP mode of the legacy Stratix switches in Device Manager on the Configure – Network – STP Settings page.
- Spanning Tree PortFast settings are now configured on the Interface – Ethernet Ports or Interface – Logical pages. These settings are automatically assigned based on the Smartport role but can be changed if necessary.

Resilient Ethernet Protocol (REP)

All Stratix 5200 or Stratix 5800 switch catalog numbers support REP. The WebUI allows configuring REP on an EtherChannel (the dual-media ring topology). When adding one of these switches to an existing REP segment, make sure that it is configured with appropriate parameters before connecting to other switches in the segment:

- REP Segment ID and REP Admin VLAN
- REP port types (for example, Edge or Transit)
- Smartport role and switchport mode (typically Switch for Automation and Trunk)
- Native VLAN
- List of allowed VLANs

Device Level Ring (DLR)

DLR is available on select Stratix models. The Stratix 5200 switch supports either one or two rings depending on the SKU. The Stratix 5800 switch supports two or three rings depending on the SKUs being used.

All DLR roles are supported, including DLR supervisor, redundant gateway, and DLR DHCP. DLR is supported on any adjacent port pair (N, N+1), where N is an odd port number.

Parallel Redundancy Protocol (PRP)

A Stratix 5200 or Stratix 5800 switch can be used as the infrastructure switch (LAN A or LAN B) in a PRP architecture. The Stratix 5200 switch supports one port group and the Stratix 5800 switch supports two port groups. Configure Maximum Transmission Unit (MTU) on a PRP infrastructure switch as 1506 bytes or higher for a PRP topology

Advanced Stratix switch catalog numbers can be configured as PRP RedBoxes (not available on the Stratix 5700 switch platforms). One PRP channel is supported and is only configurable on ports Gi1/1 and Gi1/2.

EtherChannel

The EtherChannel feature is available on all Stratix 5200 or Stratix 5800 switch catalog numbers. This feature allows grouping two or more physical ports into one logical interface for more efficient bandwidth utilization and resiliency.

REP over EtherChannel is supported for dual-media ring topologies. EtherChannel ports cannot be configured as DLR or PRP ports (this applies to all Stratix switches).

Layer 3 (routed) EtherChannels are not supported on the Stratix 5200 switches, but are supported on select Stratix 5800 models.

FlexLinks

The FlexLinks resiliency feature allows configuring two Layer 2 interfaces where one acts as a backup to the other. This feature is not available on Stratix 5200 or Stratix 5800 switches.

To replace the FlexLinks configuration when migrating from a Stratix 5700 switch, use one of the following methods:

- Configure EtherChannel (only if both links are connected to one switch that supports EtherChannel).
- Use Spanning Tree as the default method to block one of the links (if connecting to two separate upstream switches).

Routing Considerations

Routed Ports and Layer 3 EtherChannels

Stratix 5200 switches do not support routed (Layer 3) ports and Layer 3 EtherChannels. This functionality was previously available on the Stratix 5700 Full versions. If routed ports or Layer 3 EtherChannels are required, use a Stratix 5800 switch.

Connected Routing and Static Routes

Connected routing (inter-VLAN routing) is supported on all Stratix 5200 and Stratix 5800 switches. Connected routing enables all devices on any VLAN that use the switch to communicate with each other if they use the switch as their default gateway.

Connected routing is enabled when more than one SVI is configured with an IP address. To use Connected Routing, multiple VLAN SVIs with IP addresses must be configured on the switch. Devices in routed VLANs must use the switch SVI as the default gateway address. There is no need to change Switch Management Database (SDM) template on a Stratix 5200 or Stratix 5800 switch to use Connected routing.

Static routing is supported on all Stratix 5200 or Stratix 5800 switches. Static routes define explicit paths to the destination network. The route information includes the destination network address, destination subnet mask, and the IP address of the next hop router.

Dynamic Routing and HSRP

Advanced routing features such as dynamic routing protocols (EIGRP, OSPF, and so on) and HSRP are not supported on the Stratix 5200 or Stratix 5700 switches. Use a Stratix 5800 switch (Layer 3 versions) for advanced routing functionality.

Time Sync Considerations

Full and Advanced Stratix 5200 switches and all Stratix 5800 switches support IEEE 1588 PTP in the End to End Transparent or Boundary mode. Time sync considerations include the following:

- NTP-PTP Clock mode is available on the new Stratix 5200 and Stratix 5800 switches.

  The NTP-PTP clock mode is supported in firmware revision 17.12.01 or later.
- After Express Setup, the default mode is Forward. In this mode, the switch forwards PTP frames but do not participate in PTP.
- Make sure that PTP mode and parameters are configured after Express Setup to match the existing network requirements.
- To enable DLR supervisor or gateway role, the switch must be configured first in the PTP boundary mode even if PTP is not used in the network.

Network Security Considerations

Port Security

MAC address port security is available on all Stratix 5200 and Stratix 5800 switch catalog numbers.

Port security is enabled automatically for some of the Smartport roles. Port security settings can be changed on the Configuration – Interface – Ethernet Ports - Advanced page.

Access Control Lists (ACL)

IPv4 and IPv6 ACLs are supported on all Stratix 5200 and Stratix 5800 switches.

ACL configuration has been enhanced in the Stratix 5200 or Stratix 5800 switch WebUI with more ACL types and advanced options. ACL can be applied to a port using the Configuration – Security – ACL or Configuration – Interface – Ethernet Ports - Advanced pages.

Only inbound ACLs are supported. This differs from the legacy Stratix switches where outbound ACLs were supported on routed ports and VLANs. IPv4 ACLs can only be applied to physical ports and not to VLAN interfaces. Some ACLs are system-defined for various network and security services and are not displayed in WebUI. These can be viewed in CLI.

Users and Passwords

New user and password management features available in WebUI on the Stratix 5200 or Stratix 5800 switches include the following:

- Create custom password policies and apply to individual users
- Assign custom privilege levels to users
- Stronger password encryption types

For read-only users, only Dashboard and Monitoring menu items are available. Read-only users cannot see Configuration and Administration pages or any of the switch settings.

AAA Configuration

Authentication, authorization and accounting (AAA) configuration has been enhanced in the Stratix 5200 or Stratix 5800 switch WebUI. The AAA Wizard is now available to simplify the process of configuring external RADIUS, TACACS+, or LDAP authentication in a basic or advanced mode.

TrustSec

TrustSec features are not supported on the Stratix 5200 or Stratix 5700 switches. If TrustSec support is required, use Stratix 5800 switches.

Other Network Services

Layer 2 Network Address Translation (NAT)

Layer 2 NAT feature is available on select Stratix 5200 or Stratix 5800 switch catalog numbers. NAT can be enabled on the ports Gi1/1 and Gi1/2 only. NAT implementation on these switches is similar to the legacy switches. For further information, see the Stratix Managed Switches User Manual, publication 1783-UM007.

DHCP Server

DHCP per port (DHCP Persistence) is available on all Stratix 5200 or Stratix 5800 switch catalog numbers. DLR DHCP is available on all switches that support DLR.

DHCP pools and DHCP Persistence are configured on the Administration – DHCP Pools page. The Stratix 5200 and Stratix 5800 switch WebUI allows configuration of advanced DHCP settings such as DHCP pool option values, multiple default routers, and multiple DNS servers.

Quality of Service (QoS)

The Stratix 5200 and Stratix 5800 switches provide advanced hardware-supported Quality of Service (QoS) capabilities for optimized performance and prioritization of industrial control traffic such as EtherNet/IP. Several QoS features are as follows:

- CLI configuration for QoS has changed between legacy Stratix 5700 or Stratix 5400 switches and Stratix 5200 or Stratix 5800 switches and cannot be copied from one to another.
- Express Setup automatically applies global QoS settings that are optimized for EtherNet/IP traffic.
- Smartport roles apply appropriate ingress and egress QoS policies.
- Advanced QoS settings (such as policies, class maps, and actions) can be changed, if necessary, on the Configuration – Services – QoS page in WebUI. Custom QoS policies can be applied to ports using the QoS or Ethernet Ports – Advanced pages.
- QoS is now available in all versions of the Stratix 5200 or Stratix 5800 switches, whereas legacy switches versions excluded QoS.
- Base Stratix 5200 or Stratix 5800 switch catalog numbers do not support some of the advanced QoS features such as policing and rate limiting. Prioritizing of EtherNet/IP traffic and CIP Sync traffic is fully supported.

Multicast Management

Internet Group Management Protocol (IGMP) snooping services are similar on the Stratix 5700, Stratix 5400, Stratix 5200, and Stratix 5800 switches. Global IGMP Snooping settings are configured on the Configuration – Services – Multicast page. IGMP Snooping settings per VLAN are configured on the Configuration – Layer 2 – VLAN page.

Layer 2 Discovery Protocols

Stratix 5200 or Stratix 5800 switches support both CDP (CDP) and Link Layer Discovery Protocol (LLDP). CDP and LLDP are enabled by default and configurable in WebUI.

Switch Troubleshooting

Many new troubleshooting tools are now available in WebUI to improve diagnostics and easily provide information to technical support. These tools include the following:

- Download partial or full syslog or configure external syslog servers
- Use Ping and Traceroute tools for verifying network connectivity
- Download Core Dump and System Report for analyzing system crashes
- Create Debug Bundle for technical support with ability to include output of any CLI command
- Use command-line interface in WebUI to execute diagnostic commands
- View advanced CPU and Memory Utilization data with the ability to analyze process utilization and download data dumps

Packet Capture with SPAN

Enhanced Switch Port Analyzer (SPAN) features can be configured on the Stratix 5200 or Stratix 5800 switches using WebUI. This feature is called Port Mirroring on legacy switches.

A maximum of two SPAN sessions can be configured. Local source SPAN is available on all Stratix 5200 and Stratix 5800 switches.

Remote SPAN (RSPAN) and Flow-based SPAN (FSPAN) options are available on all catalog numbers:

- RSPAN is used to capture traffic from a remote switch or send traffic to a remote switch using an RSPAN VLAN
- FSPAN is used to apply an ACL-based filter to control the type of network traffic to be monitored

Multiple source interfaces or VLANs can be selected for a SPAN session in WebUI. Ingress or egress source options are available. SPAN is configured on the Configuration – Layer 2 - SPAN page. The Smartport role Port Mirroring is no longer available.

Software Upgrade

Stratix 5200 and Stratix 5800 switches provide a faster, user-friendly firmware update process using WebUI. These switches can also be updated with Rockwell ControlFLASH Plus™ software tool.

The only supported software update method on the Stratix 5200 and Stratix 5800 switches is Install mode. In this mode, the software install package is contained in one .BIN file, which is transferred to the switch. Multiple package files (.PKG) are extracted from the .BIN file and installed in the onboard nonvolatile memory.

A software upgrade on the Stratix 5200 or Stratix 5800 switches can only be performed to the internal memory. The software typically takes up to 15 minutes to update, depending on the transfer method and network speed. After transferring and installing files, the switch must be rebooted to apply the new software version. This step can be postponed if necessary.

Software install package files (.BIN) can be transferred to the on-onboard nonvolatile memory using different methods: from a local PC (HTTPS), from a network server using FTP, SFTP or TFTP, or from an SD card. Multiple versions of software files can be uploaded and stored on the SD card for later upgrade or downgrade using the File Manager page. During the upgrade or downgrade, the SD card or the internal memory can be the source of the files, but the upgrade destination can only be the internal memory of the switch.

The previous software files are retained in the nonvolatile memory, which allows you to perform a rollback (downgrade) if necessary. Keep in mind that the internal memory capacity is limited to two GB. You can delete unused software files using Remove Inactive Files link on the Software Upgrade page or delete manually using the File Manager page.

File Management

The Stratix 5200 or Stratix 5800 switches provide tools for easier configuration and software file management using WebUI. Some of these tools include the following:

- The File Manager page for viewing, uploading, renaming, or deleting files on the onboard flash or SD flash.
- The Backup & Restore page for copying running or startup configuration to the PC or a network server using HTTPS, FTP, SFTP, or TFTP for archiving.
- A new startup configuration file can be copied to the switch with an option of backing up the existing configuration to flash. The new configuration does not take effect until after a reload.

- The Software Upgrade page provides an option of removing inactive software files from flash to free up space.

SD Card and Boot Considerations

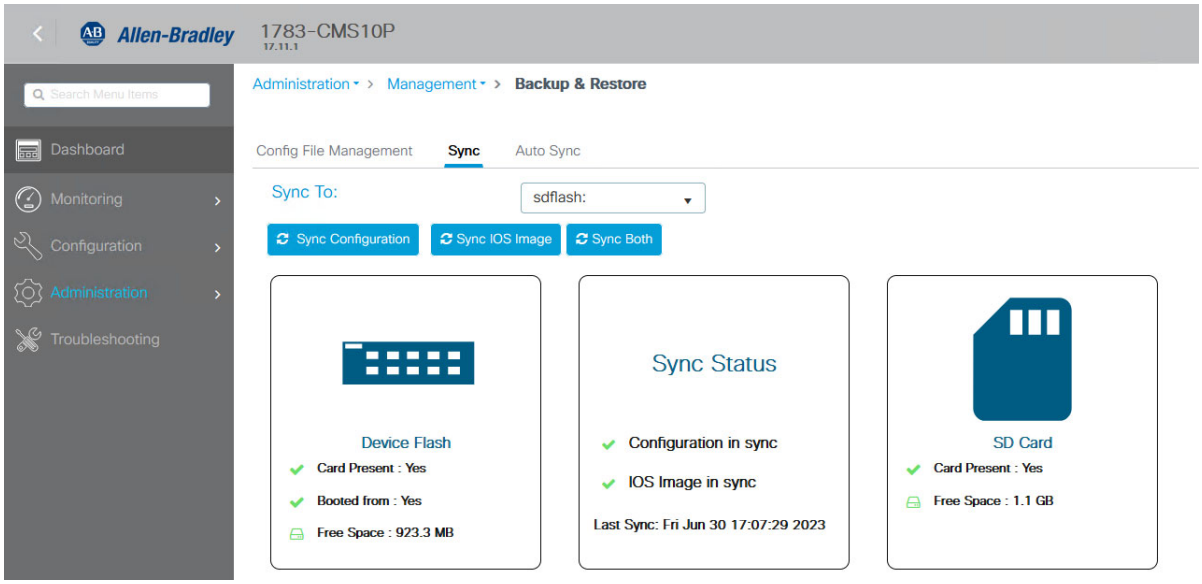
The Stratix 5200 or Stratix 5800 switches have a slot for an optional SD card that can be used for backup purposes. The supported card type is the high-capacity 1784-SDHC8 card.

You can use the SD card to synchronize the configuration and software from the internal memory and later use it to configure a replacement switch in a factory default state. You can also store versions of software files or store copies of configurations on the SD card.

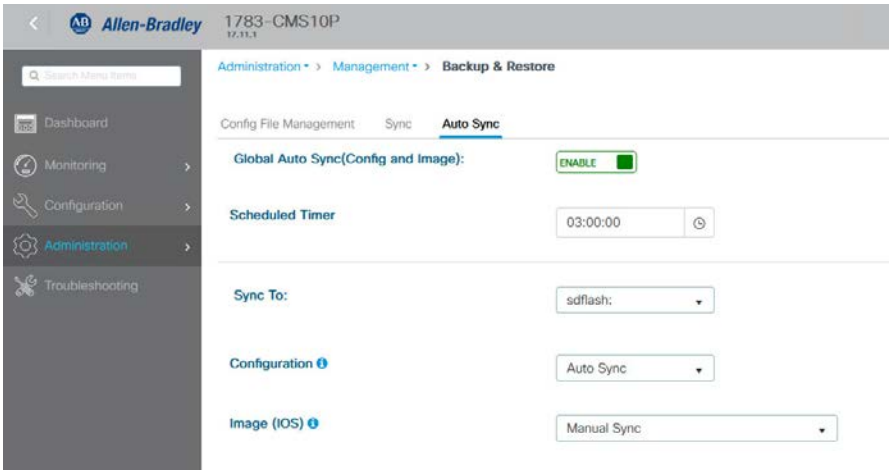
Synchronization to SD Card

The switch that is previously configured (not in a factory default state) always uses the startup configuration in the internal memory during boot. Changes to the running configuration are not immediately synchronized with the startup configuration and must be saved explicitly.

To synchronize configurations from internal memory to SD card automatically every time when saving to the startup, enable Global Auto Sync and select Auto Sync for configuration. Configuration and software files can be synchronized from the internal memory to the SD card manually on demand using the Administration – Management – Backup & Restore - Sync page.



A scheduled synchronization from the internal memory to the SD card once a day can be configured using the Administration – Management – Backup & Restore – Auto Sync page.



Restoring to a Factory Default Switch (Swap Drive Procedure)

An SD card with a previously synced configuration and software can be used for recovery after a switch failure.

The SD card must be present in the new (factory default) switch before powering up. After the boot, the switch in a factory default state detects that the SD card contains the startup configuration, and/or the software, and initiates the synchronization from the SD card to the internal memory.

If the newer version of the software is present on the SD card, the switch copies the files and installs the software in the internal memory. This can take several minutes to complete. After synchronization, the switch reboots to load the software from the internal memory and apply the new configuration.

Note the following consideration when restoring configuration to a new switch:

- Restoring configurations is only supported between switches within the same platform, for example, restoring configuration from a legacy Stratix switch to a Stratix 5200 or Stratix 5800 switch using an SD card fails.
- Applying configuration to a switch with lower feature set (for example, from a Full to Base), or different number and type of ports can lead to unpredictable results where configuration is partially applied or incorrect.
- Configuration used to restore from SD card is the nvram_config file. This configuration file is readable but encrypted and cannot be edited.

Boot Order

Stratix 5200 or Stratix 5800 switches in a non-default state always boot from the internal flash if valid software files are present. If the switch is in a factory default state and the SD card contains a newer version of the software, the switch uses the SD card to install the software to the internal flash. Afterwards, the switch reboots and uses the internal flash.

Boot Time

The boot time has increased on the Stratix 5200 or Stratix 5800 switches as compared to legacy switches:

- Stratix 5200 or Stratix 5800 switches use IOS-XE – a modularized Linux-based switch software that can deliver containerized applications alongside IOS, with focus on programmability via APIs and integrated security capabilities.
- Advanced security features in IOS XE (such as secure boot, integrity checks and image verification, increased firmware size, and modular software architecture) require more time for initialization during the boot process.

For more information see the Stratix 5200 and Stratix 5800 Switches User Manual, publication 1783-UM012.

Configuration Migration

This chapter provides the recommended steps for migrating legacy Stratix® 5400 or Stratix 5700 switch configuration to a Stratix 5200 or Stratix 5800 switch.

Manually Migrating Switch Configuration

1. Use the Stratix 5400 or Stratix 5700 Device Manager and the Device Manager Location information in the Stratix Switch Settings table to document the existing switch configuration in Device Manager in the Legacy Configuration Record, according to the switch role, required features, type and number of connected devices.
2. Identify ports on the new switch that is used for each connected device. If needed, verify media and SFP type. The numbering scheme can be different on the new switch.
3. Use Express Setup to establish the initial settings on your new Stratix 5200 or Stratix 5800 switch.
4. Sign in to the new Stratix 5200 or Stratix 5800 switch and configure the remaining settings using WebUI. Use the WebUI Location column of this Stratix Switch Settings table as reference.

Table 16 - Stratix Switch Settings

Stratix Switch Feature	Device Manger Location	WebUI Location
Basic Switch Settings	Admin > Device Management > Express Setup	Initial configuration using Express Setup The default IP address of the switch is 192.168.1.254 The default sign in is admin / switch
VLAN Settings	Configure > Network > VLAN Management	Configuration > Layer 2 > VLAN Use VLAN tab to configure VLAN ID and name Use SVI tab to assign an IP address
Smartport Roles	Configure >Network > Smartports	Configuration > Layer 2 > Smartports
Port Settings	Configure > Network > Port Settings	Configuration > Interface > Ethernet Ports > General
Port Thresholds	Configure > Network > Port Thresholds(1)	Configuration > Interface > Ethernet Ports > Advanced
EtherChannels	Configure > Network > EtherChannels(1) Configure > Network > Port Settings (logical ports Po<#>)	Configuration > Interface > Logical
DHCP General & Pool Settings	Configure > Network > DHCP > Global Settings Select each pool and click Edit	Administration > DHCP Pools > Pools
DHCP Persistence	Configure > Network > DHCP > DHCP Persistence	Administration > DHCP Pools > DHCP Persistence Make sure that the port assignment and DHCP reservations match the placement of intended control devices
Precision Time Protocol (PTP)	Configure > Network > PTP(2)	Administration > Time > PTP(3)
Network Time Protocol (NTP)	Configure > Network > NTP	Administration > Time > NTP Servers
Routing	Configure > Network > Routing(2)	Configuration > Routing Protocols > Static Routing Connected routing (routing between VLANs) is enabled by default on switches with multiple IP addresses (VLAN SVI).
Spanning Tree Protocol (STP)	Configure > Network > STP Settings	Configuration > Layer 2 > Spanning Tree
Link Layer Data Protocol (LLDP)	Configure > Network > LLDP	Configuration > Layer 2 > Discovery Protocols Discovery Protocols (CDP and LLDP) are enabled by default on all ports. These protocols can be disabled, if necessary, per network and security requirements.
Resilient Ethernet Protocol (REP)	Configure > Redundancy Protocols > REP	Configuration > Redundancy Protocol > REP
Device Level Ring (DLR)	Configure > Redundancy Protocols > DLR(2)	Configuration > Redundancy Protocol > DLR(4)

Table 16 - Stratix Switch Settings (Continued)

Stratix Switch Feature	Device Manger Location	WebUI Location
Port Security	Configure > Security > Port Security(1)	Configuration > Interface > Ethernet Ports > Advanced
Network Address Translation (NAT)	Configure > Security > NAT(2)	Configuration > Security > L2NAT(5)
Internet Group Management Protocol (IGMP)	Configure > Security > IGMP Snooping	Configuration > Services > Multicast
Access Control Lists (ACL)	Configure > Security > ACL(1) Some ACLs are added by default for QoS or security features. These are numbered ACLs 101...107 and named ACLs "CISCO-CWA...", "preauth...". There is no need to recreate them manually on a new switch if running Express Setup.	Configuration > Security > ACL
Authentication, authorization and accounting (AAA)	Configure > Security > AAA	Configuration > Security > AAA
Simple Network Management Protocol (SNMP)	Configure > Security > SNMP SNMP v3 user passwords (Authentication and Privacy) are NOT visible in Device Manager and must be obtained from your network administrator. SNMP user credentials are not stored in the startup configuration file.	Administration > SNMP Use CLI to configure ACLs if any applied to SNMP v2 community or SNMP v3 users.
Alarm Settings	Configure > Alarms > Alarm Settings	Administration > Alarms > Alarm Settings
Alarm Profiles	Configure > Alarms > Alarm Profiles	Administration > Alarms > Alarm Profiles
Users	Admin > Users	Administration > User Administration
Access Management	Admin > Access Management	Administration > User Administration
Maximum Transmission Unit (MTU)	Admin > MTU	Administration > Device > General MTU of 1506 bytes or higher is normally configured on infrastructure switches in a PRP topology.

(1) Stratix 5700 Switch Full software
(2) Selected Stratix 5700 Switch hardware
(3) Stratix 5200 with DLR support (-DB, -DP, -DN)
(4) Ring ID 2 applies to Stratix 5200 Full and Advanced catalog numbers (-P, -N)
(5) Stratix 5200 Switch advanced catalog numbers (-N)

Not all configuration parameters are visible in the Stratix 5700 Device Manager. If required by your organization, some of the advanced network and security features are configured after the initial setup using CLI. If so, these settings must be migrated using a CLI template that is provided by the network administrator in your organization.

Additional CLI commands that are required by your organization can be applied in WebUI using Administration > Command-Line Interface page. CLI syntax can change between the legacy and Stratix 5800 Switch platforms.

Migrating Switch Configuration with FactoryTalk Vault

Stratix Migration Assistant can be accessed with the FactoryTalk® Vault™ application, which is available to anyone who is part of a FactoryTalk® Hub™ Organization. For details about how to use FactoryTalk Vault or get access to it, see the following references:

- Getting Started with FactoryTalk Hub
- Getting Started with FactoryTalk Vault

IMPORTANT Be familiar with how your organization works with FactoryTalk Hub to verify Stratix Configuration Files have protection over unauthorized access.

Use the following steps to migrate your switch.

1. Download the Configuration file from the Stratix 5700 switch that you want to migrate.

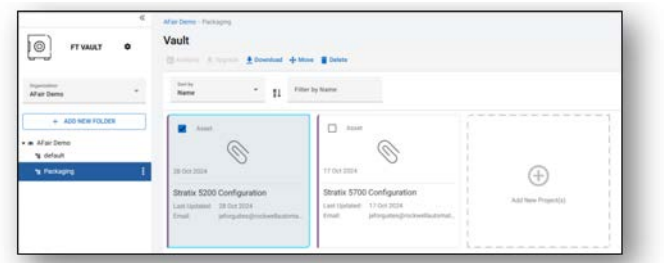
   Save this file to a computer that can be used to connect and upload this file into the FactoryTalk Vault location. Detailed directions for this process are in the Configuration Files section of the Stratix Managed Switches User Manual, 1783-UM007.

IMPORTANT The Config.text file can be used with the Stratix Migration Assistant specifically. The vlan.dat and dmuser.txt files are not supported and not required to migrate functionality to the newer Stratix families. For more information, see the Express Setup section on page 28 of the Stratix Managed Switches User Manual, 1783-UM007.

2. When the file from the original switch is downloaded, log into the FactoryTalk Vault application.
3. Upload the file and organize the environment to suit the specific needs of your team. For more detailed directions, see FactoryTalk Solutions.

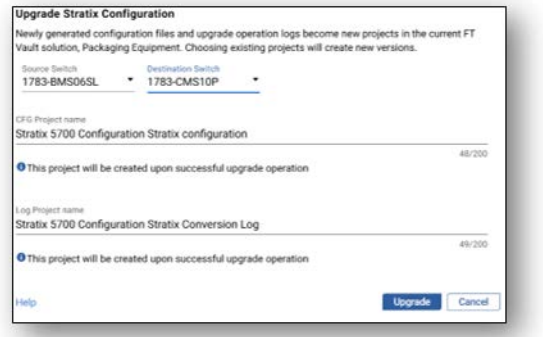
   When the file is uploaded, it is placed onto a tile. If you highlight the tile, the "Upgrade" option becomes available.

The upgrade option is only available if the file type is supported. Uploading an unsupported file type will leave the button inactive. This is shown in the following image.



4. Click Upgrade.

   A dialog box appears with the option to select the specific SKU information for the Source switch and the Destination switch. There are also options to change to name of the new x.cfg file that is created with the Log file containing details about the migration specifics.



When the upgrade is completed, the new files are placed into their own tiles in the same FactoryTalk Vault location as the Source file.

The new file must be tested and modified before it can be deployed into the production environment.

The FactoryTalk Vault tool enables teams to easily update files and create notes to reflect test status or other items that may be relevant to the update that was made. Teams can use these fields to communicate and view history of the file.

For more details, see Edit Project Properties.

Stratix Migration Assistant General Function

The best source of specific information about the conversion process is in the log file that is stored on its own tile along with the new .cfg file after the "Upgrade" function runs successfully. The conversion is not exact, as there are differences between the IOS Classic and IOS-XE networking operation system specifics.

ATTENTION: It is critical to review these details and make any appropriate updates prior to deploying the configuration into your production environment.

Migration Assistant Guidelines

The following items include general guidance on using the migration assistant for Stratix configuration files:

- New files being generated require testing and modification before being deployed into production environments. It is important to test and stage these backups before using them to avoid unplanned downtime. These tools are intended to aide these workflows through automation and make the files easier to share across teams that could have a mix of Stratix switches in their production environments.
- Security credentials and certificates are not retained. Configuration files generated for the new switch do not include any credentials. The log file gives you specific information about the file, but does not include any password related information from the original file.

IMPORTANT For details about changing passwords, see the Stratix Managed Switches User Manual, 1783-UM007.

Express setup is recommended for changing passwords before loading configuration from the original switch. Express setup also addresses the common features listed below.

- Common features on Stratix switches with credentials that need to be addressed are:
  - CIP Password
  - Command Line Interface (CLI) Password
  - WebUI (Web Browser interface) Username and Password

  Depending on the configuration specifics and the needs of your environment, there may be additional credentials.

  For more information, see Industrial Ethernet Switches Technical Documentation.
- QoS is a common feature deployed on Stratix switches. In the IOS-XE operating system, significant changes were made to the technologies that were used for this feature. Based on these changes, the QoS settings in the configuration files of the Stratix 5700 and Stratix 5400 switches cannot be converted. To address this situation, we recommend running the new Stratix 5200 through express setup prior to deploying configuration from the original switch. This process gives the Stratix 5200 the recommended QoS settings for common use cases.
- If the migration script does not recognize the command as one that has changed for the new environment, then the behavior is to copy configuration over. During the test process, it is important to check for any errors on your test switch to ensure that you do not need to address any gaps due to deprecated features that the migration script is not yet accounting for.

Interface Conversion Order of Priorities

Not all Classic Stratix switches have one to one mapping to the Next-gen switches. Some of the port counts vary due to the simplification of the SKUs. One of the goals of this application is to allow you to move from any of the Classic switches to any of the Next-gen switches as there can be a change in specification requirements from when the Classic switch was initially installed. As a result, the application makes a few assumptions as listed below. In some cases, this requires manual intervention to verify that the switches are configured as intended.

The list below explains how the application converts interfaces.

1. Gigabit Ethernet ports always map to Gigabit Ethernet ports to maintain port speeds.
2. The app matches the exact port type (RJ45, SFP, or Combo) from the source switch to the destination switch to limit cabling changes.
   - If there is an SFP or Combo port in the source switch, but no port of the same type in the destination switch, the application checks for an available port of the other type. For example, if the source has an SFP port but no Combo ports, and the destination has a Combo port but no available SFP port, then the source's SFP port configuration is moved to the destination's combo port and vice versa.
   - If there are no available ports, then the SFP or Combo port is only converted to an RJ45 port if there are any available. If there are no ports available, the configuration is not carried over to the destination.
3. When migrating from a higher port count to a lower port count, any source ports that are not matched to destination ports are dropped. These ports are listed on the log file.
4. When migrating from a lower port count to a higher port count, any extra ports in the destination switch are left blank.

For more detailed information on which source interfaces have been mapped to which destination interfaces, refer to the log file from the migration.

Testing Converted Stratix File

Download the .cfg file and .log file from the FactoryTalk Vault location to a computer that is connected to the Stratix switch that you will be using to test and edit the configuration file for the production environment.

The configuration file does not replace credentials on the test switch. Basic connectivity is initially set up with express setup before testing the configuration file. Make sure you have a backup configuration and terminal access tool ready for this test switch in the event that you disrupt your access and need to restore to a known state.

The CLI that is available in WebUI under Administration > CLI is a useful tool for testing the configuration file and getting feedback about any commands that are generating errors on your test switch. The tool allows you to cut and paste the contents of the text based configuration file and get feedback.

Cisco publishes detailed command reference documents for their Network Operating System that is used by Stratix switches. This is a helpful reference to find line items that may be showing you an error. Command reference documents are updated at each release. These line items are updated at each release. Be sure to search for the release you are using. For example, commands associated with VLANs can be found here.

For more information, see Command Reference, Cisco IOS XE 17.15.x.

Once any errors are resolved and any other necessary changes are made, the configuration file from your test switch can be uploaded into FactoryTalk Vault to replace the initial file with notes indicating that the new file is ready to be deployed when needed. The file pulled from the test switch contains all of the configuration information.

Update Configuration of a Stratix Switch

Use the following steps to update the configuration of a new Stratix switch from your configuration file.

1. Commission your out-of-box switch to enable initial connectivity.

   There are several ways to accomplish this with "Express Setup" being a common approach. Directions for express setup can be found in the Stratix Managed Switches User Manual publication 1783-UM007, along with alternatives, like using the “Swap drive” feature with an SD card created from a test switch.
2. Once the switch is booted, downloaded the file from FactoryTalk Vault to replace the configuration.
3. Follow the “Backup and Restore configuration files via WebUI” procedure in the Stratix Managed Switches User Manual publication 1783-UM007, to load the production ready configuration file into the switch.
4. Reload the switch after this process to start using the configuration.
5. If you are using your SD card as a backup configuration on the new switch, sync to the SD card.

If your control project is communicating with the new switch to pull alarm information into the system about the network, there can be some application code updates required to reconnect this information. This can be done later in the process as errors associated with this do not affect communications running across the network. For more information, see the Stratix Managed Switches User Manual publication 1783-UM007.

Notes:

Legacy Configuration Record

Use this worksheet to document the existing switch configuration in Device Manager according to the switch role, required features, type and number of connected devices.

Legacy Switch Configuration

Basic Switch Settings:	
Host Name	
Management VLAN	
IP address Mode	
IP address / Mask	
Default Gateway	
CIP™ VLAN	
VLAN Settings:	
VLAN ID	
VLAN Name	
VLAN IP address (if assigned)	
Smartport Roles	
Port Settings – General:	
Description	
Speed/duplex: auto or hard-coded	
Operational Mode: trunk, access, or dynamic auto/desirable	
Access VLAN	
Allowed VLAN list	
Native VLAN	
Incoming – unicast, multicast, broadcast	
Outgoing	
EtherChannels:	
Channel Group Number	
Channel Mode: LACP (Active/Passive) or Static	
Assigned ports	
Operational Mode: trunk or access	
VLAN settings: Access or Native VLAN, Allowed VLAN List	

Legacy Switch Configuration (Continued)

DHCP General Settings:	
VLAN IDs with DHCP Snooping enabled	
DHCP Pool Name	
Network / Subnet Mask	
Starting and Ending IP	
Default Router	
Reserved Only and DHCP Snooping Enabled	
DHCP Persistence:	
Interface, DHCP Pool Name and reserved IP address	
Precision Time Protocol (PTP):	
PTP Mode - Boundary, End to End Transparent or Forward	
Any ports where PTP is disabled	
Priority1 and Priority2 values	
PTP VLAN ID per port	
Network Time Protocol (NTP):	
IP addresses of NTP servers	
If any server is Preferred	
Routing:	
Default Gateway	
Static Routes	
Spanning Tree Protocol (STP):	
Spanning Tree Mode:	
MSTP, Rapid PVST+, or PVST+	
Any instances other than default MST 0 and their VLAN mapping (not common)	
Priority value for each instance	
Any VLANs with Spanning Tree disabled (not common)	
Priority value for each VLAN	
BPDU Filtering with PortFast (enabled by default)	
BPDU Guard with PortFast (enabled by default)	
PortFast state per port (typically determined by the Smartport role)	
Any ports with PortFast Trunk enabled	
Link Layer Data Protocol (LLDP):	
LLDP state (enabled or disabled)	
Enabled TLVs (default is all)	
Resilient Ethernet Protocol (REP):	
REP ports and their REP Segment ID	
Port types: Transit, Edge or Edge No-neighbor, with Primary or Preferred option	
REP Admin VLAN	
Any STCN settings per port (not common)	

Legacy Switch Configuration (Continued)

Device Level Ring (DLR):	
DLR Mode: Supervisor, Node, or None	
DLR ports	
Supervisor Role (Precedence)	
Beacon Interval and Timeout (if changed from default 400/1960 uSec)	
Redundant Gateway Role (Precedence)	
Uplink ports	
DLR DHCP Server role	
Number of devices in the ring	
For each device: ring index, DHCP IP address, host name, and pool name	
Port Security:	
Ports with Port Security enabled (typically determined by the Smartport role)	
Maximum MAC count	
Static MAC assignments (not common)	
Network Address Translation (NAT)(2):	
Instance name	
If NAT is enabled and selected VLAN for ports Gi1/1 and Gi1/2	
Private to Public translations: type, range, or subnet mask, private / public IP	
Gateway Translation: public and private IP	
Public to Private translations: type, range, or subnet mask, public / private IP	
Traffic Permits for non-translated, multicast, and IGMP	
Fix Up enabled for ARP and ICMP	
Internet Group Management Protocol (IGMP):	
If IGMP Snooping enabled – global setting and per VLAN	
If IGMP Snooping Querier enabled	
Querier address (not common)	
Access Control Lists (ACL):	
ACL type: standard or extended	
ACL name or number	
ACL entries in exact order	
Permit or deny	
Protocol	
Source: type, address, wildcard, operator, port number	
Destination: type, address, wildcard, operator, port number	
Log option	
Inbound ACLs per port	

Legacy Switch Configuration (Continued)

Authentication, authorization and accounting (AAA):	
If AAA Model is enabled	
TACACS+ server settings	
RADIUS server settings	
TACACS+ and RADIUS server groups: name, list of servers	
Method name, types, server group	
Fallback to Local option	
Other settings specific to the type	
Simple Network Management Protocol (SNMP):	
If SNMP is enabled globally	
System location and contacts	
SNMP Host settings: IP address, SNMP v2 community or SNMP v3 user, security model, type and port	
Community strings (SNMP v2), read-only or read/write access	
SNMP v3 groups: name and version / mode	
SNMP v3 users: name, group, security model, authentication and privacy type, access list name or number	
Enabled SNMP traps (typically all are enabled)	
Alarm Settings:	
Alarm Relay Setup per relay: normally opened or closed	
What alarm types are enabled for each global event: DM, SNMP trap, hardware relay, syslog	
Alarm Profile names per port	
Alarm Profiles:	
Profile names (ab-alarm and defaultPort are pre-defined)	
What alarm types are enabled for each port event: DM, SNMP trap, hardware relay, syslog	
Users:	
Usernames and privilege: admin or read-only	
Access Management:	
SSH Enabled	
Telnet Enabled (not recommended)	
Maximum Transmission Unit (MTU):	
System MTU value (if different from the default 1500 bytes)	
MTU of 1506 bytes or higher is normally configured on infrastructure switches in a PRP topology.	

History of Changes

This appendix contains the new or updated information for each revision of this publication. These lists include substantive updates only and are not intended to reflect all changes. Translated versions are not always available for each revision.

Change Log

1783-RM001C-EN-P, March 2025

Change
Removed 1783-CMS20DNK from publication until future product release
Corrected Power input attributes in the Stratix 5400 Switch Power Specifications table
Added History of Changes, Appendix B

1783-RM001B-EN-P, March 2025

Change
Added information to support migration from Stratix 5400 switches.
Added information to support migration to Stratix 5800 switches.
Added Migration Options to Chapter 1.
Restructured information regarding Manually Migrating Switch Configuration
Added a Legacy Configuration Record worksheet

Notes:

Rockwell Automation Support

Use these resources to access support information.

Technical Support Center	Find help with how-to videos, FAQs, chat, user forums, Knowledgebase, and product notification updates.	rok.auto/support
Local Technical Support Phone Numbers	Locate the telephone number for your country.	rok.auto/phonesupport
Technical Documentation Center	Quickly access and download technical specifications, installation instructions, and user manuals.	rok.auto/techdocs
Literature Library	Find installation instructions, manuals, brochures, and technical data publications.	rok.auto/literature
Product Compatibility and Download Center (PCDC)	Download firmware, associated files (such as AOP, EDS, and DTM), and access product release notes.	rok.auto/pcdc

Documentation Feedback

Your comments help us serve your documentation needs better. If you have any suggestions on how to improve our content, complete the form at rok.auto/docfeedback.

Waste Electrical and Electronic Equipment (WEEE)

At the end of life, this equipment should be collected separately from any unsorted municipal waste.

Rockwell Automation maintains current product environmental compliance information on its website at rok.auto/pec.

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