



SNEAK PEEK

Cisco Community Expert Series Webcast

Overview of Cisco's Branch Routing Portfolio

April 23rd , 2019

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Register Now: <http://bit.ly/webcast-branches-apr20>



Agenda

- An overview of Cisco 1000 Series Integrated Services Routers (ISR 1000) and Cisco 900 Series Integrated Services Routers (ISR 900)
- Migration from Cisco 800 Series Integrated Services Routers (ISR 800) to ISR 1000/ISR 900
- An overview of Cisco 4000 Series Integrated Services Routers (ISR 4000)

Cisco Enterprise Routing Portfolio

Branch

ISR 900



- Fixed and fanless
- IOS Classic based

ISR 1000



- Integrated wired and wireless access
- PoE/PoE+

ISR 4000



- WAN and voice module flexibility
- Compute with UCS E
- Integrated Security stack
- WAN Optimization

vEdge 100



- 4G LTE & Wireless

vEdge 1000 & 2000



- Fixed/Pluggable Module

Aggregation

ASR 1000



- Hardware and software redundancy
- High-performance service with hardware assist

vEdge 5000



- Modular
- RPS

Virtual and Cloud

Cisco ENCS



- Service chaining virtual functions
- Options for WAN connectivity
- Open for 3rd party services & apps

CSR 1000V



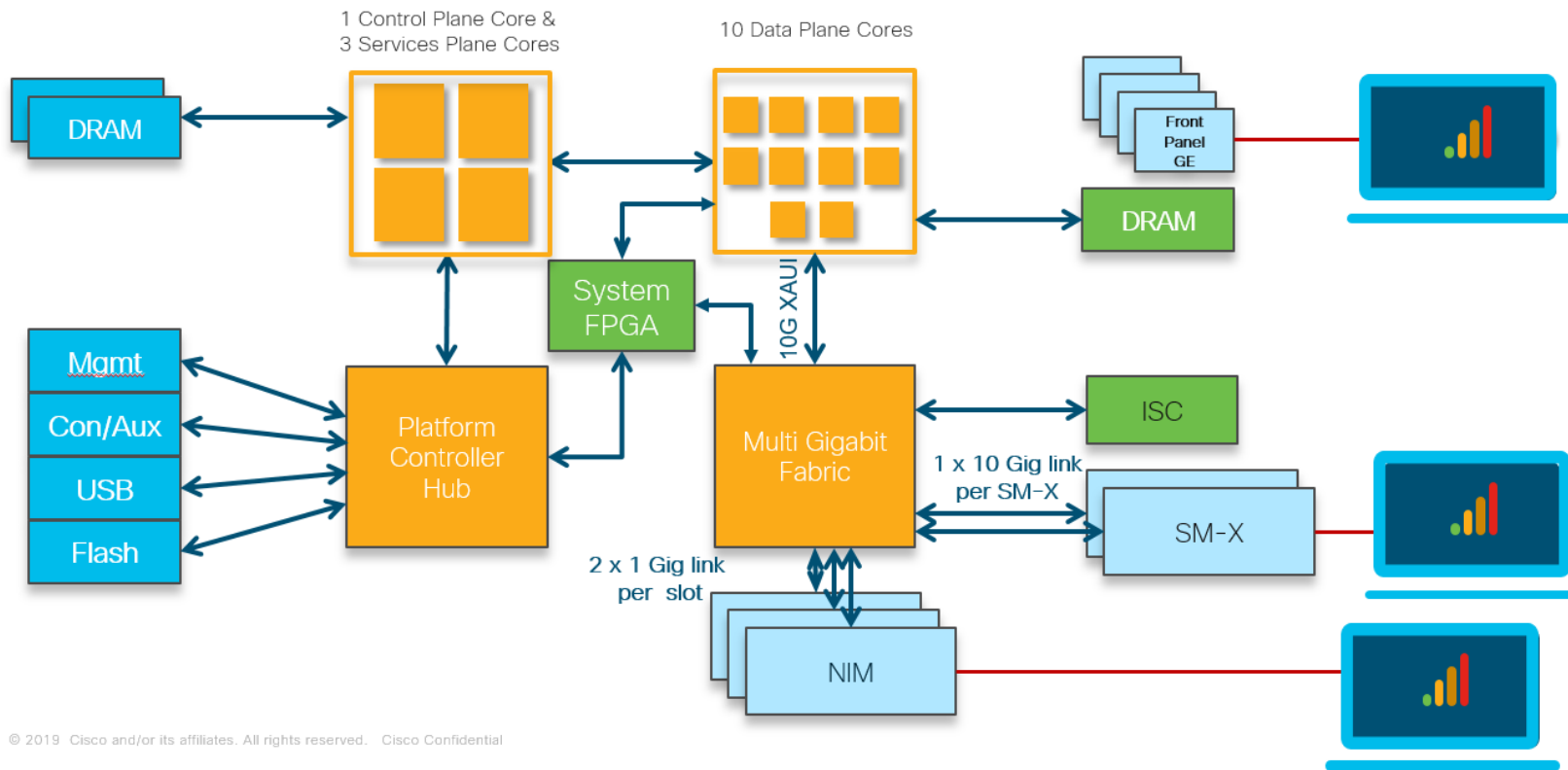
- Cisco DNA virtualization
- Extend enterprise routing, security & management to cloud

SD-WAN

ISR 1000 Series

	C1109-2P (M2M)	C1109-4P (M2M)	C1101-4P	C1111-4P	C1111-8P
Operating System	IOS-XE/XE SD-WAN	IOS-XE/XE SD-WAN	IOS-XE/XE SD-WAN	IOS-XE/XE SD-WAN	IOS-XE/XE SD-WAN
SD-WAN	Up Coming	Up Coming	Up Coming	Yes	Yes
Dual Ethernet WAN	No	No	No	Yes	Yes
LTE Advanced	No	Yes (Optional)	Yes (Optional)	Yes	Yes
SFP	No	No	No	Yes	Yes
G.FAST	No	No	No	No	Yes (C1112/C1113)
VDSL2	No	No	No	Yes (C1116/1117)	Yes (C1112/C1113)
ADSL2/2+	No	No	No	Yes (C1116/1117)	Yes (C1112/C1113)
G.SHDSL	No	No	No	No	Yes (C1118)
802.11ac Wave 2	No	Yes/External Antenna	Yes	Yes	Yes
LAN Ports	2 GE	4 GE	4 GE	4 GE	8 GE
Internal PoE Option	No	No	No	1 PoE+ / 2 PoE	2 PoE+ / 4 PoE

ISR 4000 Packet Flow



Trust Anchor Module (TAm)



- Hardware-Based Anchor
- Anti-Tamper Chip
- Secure Storage
- Built-In Crypto Functions
- Random Number Generator
- Hardware Authenticity Check
- Integrity Verification
- Verifiable Entropy

Secure Unique Device ID (SUDI) X.509 Certificate = Device's Identity

- Manufacturer installed certificate
- Hardware serial numbers
- Device-unique public key

Key Use Cases

- Verifying the integrity of a device's identity
- Onboarding a new device – Secure Zero Touch Provisioning
- Secure enrollment within an organization's PKI

ISR4K Modules

LAN	SM-X: 16, 24 or 48 port switch modules NIM : 4 or 8 ports switch modules
UCS-E	SM-X: CPU 6, 8 or 12 cores NIM : CPU 4 cores
Voice	SM-X: 8, 16, 24, 72 FXS & 2, 4, 12 FXO NIM : T1/E1, 2 or 4 ports FXS/FXO, BRI PVDM4 : 32, 64, 128 & 256 channels
WAN	SM-X: 4 or 6 1GE, 1 10GE, 1 port T3/E3 NIM : 1 or 2 1GE, 3G/4G LTE, 1, 2, 8 T1/E1, Serial 1 or ports. Multimode VDSL2 / ADSL Annex A, B & M



Cisco ISR Software & Licensing

IOS-XE

- Image Packaging
- Image naming
- Software packaging
- Throughput Licensing

SD-WAN XE

- DNA Licensing
- DNA PID

Check out some additional information on Cisco Branch Routers on the Cisco Community or Cisco.com

Cisco 891 Integrated Services Router

<https://community.cisco.com/t5/routing/cisco-891-integrated-services-router/td-p/3821066>

Branch Routers

<https://www.cisco.com/c/en/us/products/routers/branch-routers/index.html>

If you are not yet a registered user on the community, [Click here](#) to register and become an active participant on the community.



Hope you enjoyed this little peek into the webcast.
Remember it was just a peek. April 23rd you get a chance to see the whole thing.



Register Now: <http://bit.ly/webcast-branches-apr2019>

At the webcast you will be able to learn so much more and get a chance to submit questions for the expert to answer during the broadcast.
We'll see you there!