

Cisco ANA Carrier Ethernet Activation 1.1

Product Overview

Cisco® ANA Carrier Ethernet Activation is a set of activation modules that integrate into Cisco® Active Network Abstraction (ANA). They provide the building blocks for deploying services on a Cisco Carrier Ethernet next-generation network (NGN). The modules are designed to be easily modified or extended by Cisco Advanced Services or a system integrator to meet the individual needs of a service provider.

Business requirements are defined in a Service Management system which requires activation on the network elements. As each service component needs to be activated, the service management application can invoke the Cisco ANA Activation modules through Cisco ANA standard interfaces. These activation modules deliver defined service definitions independent of the device activation specifics. Additionally, the modules can be extended or modified and reused across multiple service definitions.

As well as using the ANA (Northbound Interface) NBI for accessing the activation modules, the ANA Graphical User Interface (GUI) can also be used for service activation. This form based GUI enables services to be activated on a node by node basis without any knowledge of the device CLI. Using the ANA GUI for service activation means that unlike service management applications, the deployed service information is not saved within the application.

Features and Benefits

- Supports the deployment of Carrier Ethernet residential and business services
- Easily adapts to specific requirements or service characteristics
- Allows the decoupling of device activation details from service definition: Activation modules can be reused across different service types.
- Provides a web services-based API for integration within the OSS architecture
- Provides role-based access control to help ensure that activation modules are modified only within an approved change process and by authorized personnel
- Contains comprehensive built-in error checking routines to ensure valid parameter values are entered and that existing configurations are not inadvertently overwritten

Platform Support/Compatibility

The activation modules have been developed in a version-agnostic manner and can be ported to the relevant version of ANA by your Cisco Advanced Services or local system integrator. The modules have been developed and tested to deploy services on the following Cisco hardware:

- 7600 Series Routers running Cisco IOS® Software Release 12.2(33)SRD and later. Supported line cards include the ES20/ES40 Ethernet Services series of Gigabit Ethernet line cards, Gigabit Ethernet shared port adapters (SPAs), and Circuit Emulation SPAs
- Catalyst 4500, Cisco ME 3400 Series Ethernet Access Switches and Catalyst 3750 Metro Series Switches

Table 1 lists supported products.

Table 1. Platform Support

Description
Cisco 24-Port T1/E1/J1 Circuit Emulation and ATM SPA
Cisco 1-port Channelized OC3/STM-1 Circuit Emulation and ATM SPA
Cisco 7600 Series Ethernet Services Line Cards
Cisco 2, 5-Port Gigabit Ethernet Shared Port Adapter
Cisco ME 3400 Series Ethernet Access Switch
Cisco Catalyst 3750 Metro Series Switch
Cisco Catalyst 4500 Series Switch

Product Specifications

The activation modules provide the building blocks for end-to-end services. Table 2 lists the supported components.

Table 2. Product Specifications

Service	Description
VPLS Services	Support for standard and H-VPLS. This includes Ethernet over Multiprotocol Label Switching (EoMPLS) access into hierarchical virtual private LAN service (H-VPLS)
Point-to-point services	Support for point-to-point "E-LINE" services
L3VPN Services	Support for L3VPNs on 7600 based PE with BGP PE-CE routing protocol
Mobile transport over MPLS	TDM over MPLS with structure agnostic and structure aware interfaces; ATM over MPLS with IMA support
Ethernet access	4500, ME3400, and ME3750 support as Ethernet access switches for ETTx-based services
QoS and Security Support	H-QoS Support on the 7600 ES line cards. L2 ACL and MAC security support on 7600.

System Requirements

Cisco ANA Carrier Ethernet Activation 1.1 requires Cisco ANA.

Cisco Services

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For More Information

Visit <http://www.cisco.com/go/ceactivation> to learn more about the complete Cisco Carrier Ethernet solution architecture including the [Cisco Active Network Abstraction](#) element management system, contact your local Cisco account representative, or send an email to ask-cems@cisco.com.



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