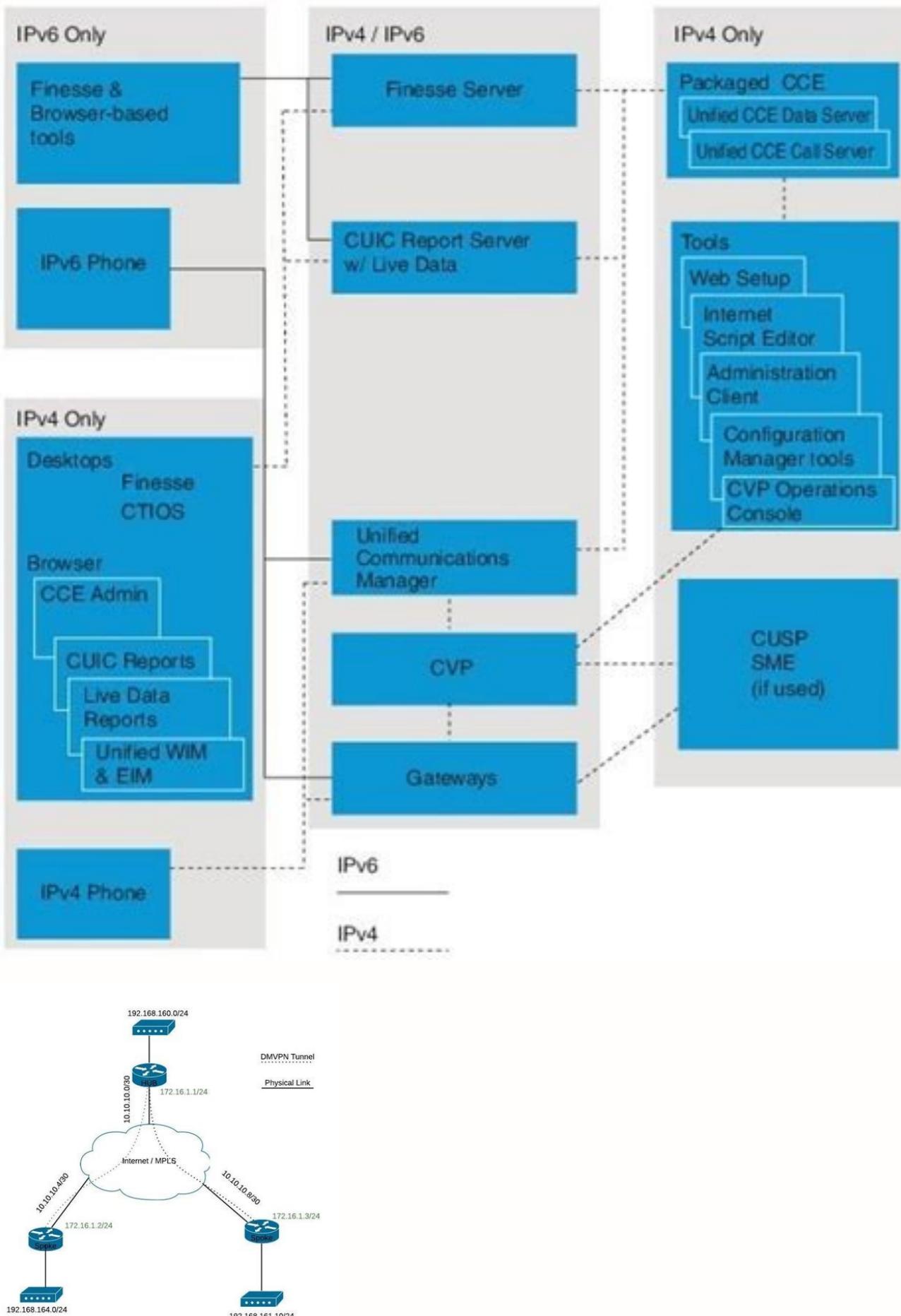
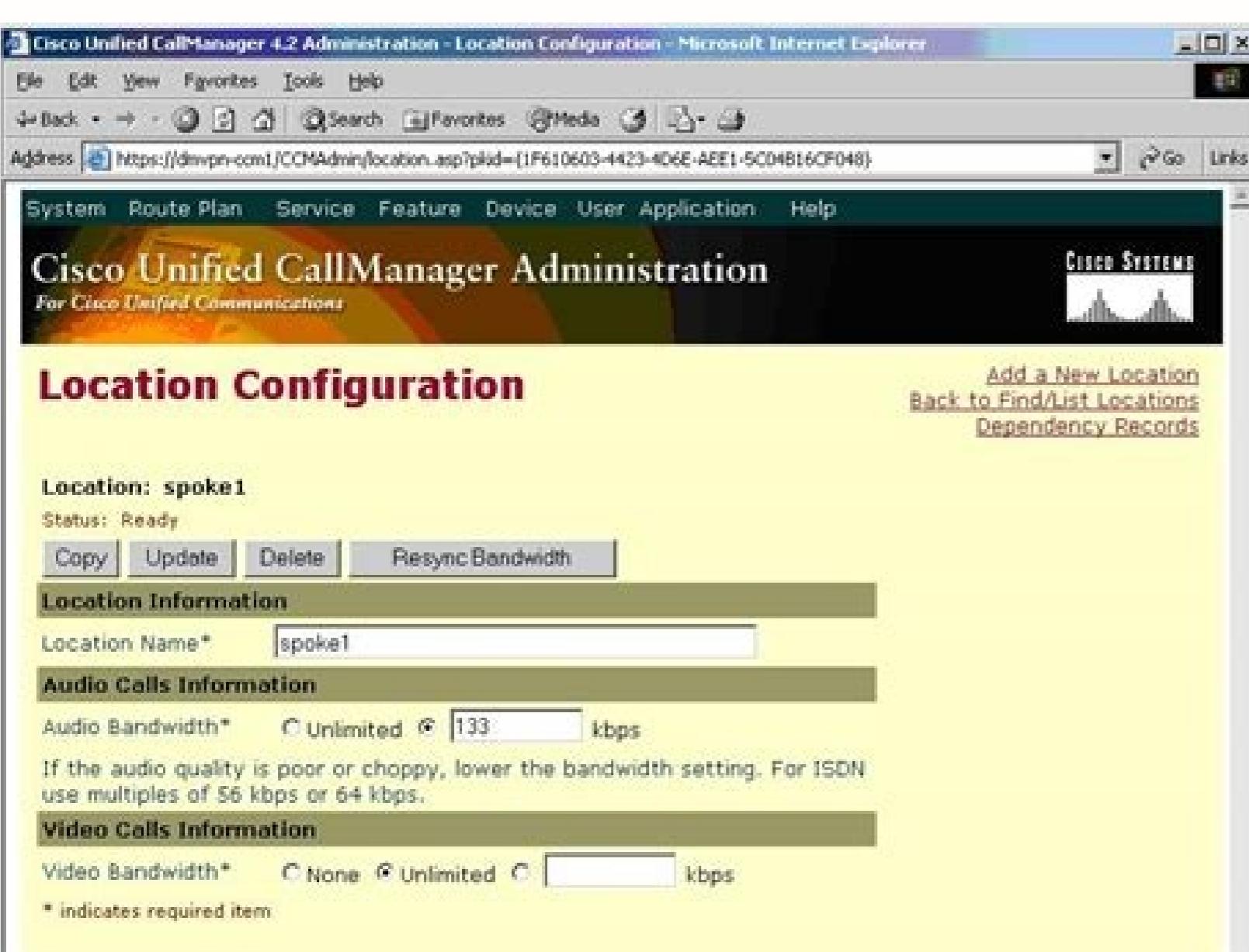


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48146823100 14359217.09 11320492.872727 23599907.978723 99982708485 27100925.447368 62755926.818182 40839424366 13136115.6 4169259724 6835084610 49031017560



In this article you see how to configure the DMVPN Phase3. (Dec 2018). The hub maintains an NHRP database of the Public Interface addresses of each radius. Using this initial hub-e-ray network, the tubes between the rays can be dynamically constructed on demand (dynamic mesh) without additional configuration in the cubes or rays. Each radius records its actual address when boots; When it is necessary to build direct tubes with other rays, it queries the NHRP database for real addresses of the destination spokes. HUBInterface Tunnel1 IP NHRP Authentication CisitWD! NHRP Authentication IP Key NHRP Map Multicast Dynamic IP NHRP Network-ID 101! NHRP Identifier IP NHRP Holdtime 300! Seconds that NHRP NBMA addresses are announced as velids in NHRP positive responses of NHRP IP Redirection! NHRP's "DMVPN PHS3 hub: NHRP's" Multicast Multicast Dynamic "allows NHRP to automatically add router routers to NHRP Multicast mappings when these routers spoke to start Tunnel MGRE and registered their NHRP mappings Unicast. Stay tuned, you will learn in the next article :) References: Report this announcement Recovered September 24, 2017. These commands are required in routs of ray.Remember: the string of authentication, the holdime and The network ID should be the same in all tubers. 3. Define EIGRP Processan networks between cube and rays. The key chain is used to authenticate the EIGRP process; Obviously, it should be the same on all routers.Hub - spoke1 → "Spoke2Key chain DMVPN key 1 key chain EIGRP-CISCOZINE HUBROUTER EIGRP 100 Network 10.0.1.0 0.0.0.255! Used for the News Network 192.168.1.0/24 Passive-standard interface without passive interface tunnel1 No passive interface Ethernet0 / 0 interface TUNNEL1 Authentication mode IP EIGRP 100 MD5! Activate the of authentication keyring EIGRP 100 DMVPN! Activate Authentication Process Using the IP of the DMVPN DMVPN Keychain EIGRP 100 192.168.0.0 255.255.0! Announce a summary route spoke2router EIGRP 100 Network 10.0.1.0 0.0.0.255! Used for Neighbors Network 192.168.2.0/24 No passive interface tunnel1 No passive interface Tunnel Ethernet0 / 0 TUNNEL1 → IC IC AUTHENTICATION MODE EIGRP 100 MD5! Activate the Authentication process MD5 IP Authentication Keychain EIGRP 100 DMVPN! Activate Authentication Process Using DMVPN Keychain Spoke3Router EIGRP 100 Network 10.0.1.0 0.0.0.255! Used for the network of neighbors 192.168.3.0/24 No passive interface pattern 192.168.3.0/24 No passive interface tunnel1 No passive interface Tunnel Ethernet0 / 0 Tunnel1 → IC Authentication Mode EIGRP 100 MD5! MD5 AUTHENTICATION PROCESS IP AUTHENTICATION Keychain EIGRP 100 DMVPN! Activate the authentication process using the Chainat DMVPN Chainat at the end of this step, the DMVPN is operational and can be used, but, my suggestion, is to complete the DMVPM architecture encrypting and protecting all data with IPsec.4. Define IPsec ProfileThe Last step (optional) is to protect the Tunnel MGRE with the IPsec. Phase 1: All lightning traffic flows to and through hub. DOI: 10.1088 / 1742-6596 / 1140 / 1/012039. Benefits DMVPN provides the ability to create a Dynamic-Mesh VPN network without prejudging (static) all possible end point pairs, including IPsec (Internet Protocol Security) and ISAKMP (Internet Security Association and Key Management Protocol). [3] DMVPN is initially configured to construct a hub-e-ray network, statically configuring hubs (VPN tissues) in the rays, no changes in the hub configuration is needed To accept new rays. To do this, you need to set a policy / Isakmp profile and an IPsec Transform-Set / Profile.Hub / Spoke2 / Spoke3Crypto Keyring-Keyring-Wan 0.0.0.0 0.0.0.0 CiscoZine key! Define the key PRISE-COMPETRENDED PRA Isakmp 10 Politics! Set the ISAKMP security settings ENSA HASH SHA256 Authentication Group of PRÄ ©-Share 5 Crypto ISAKMP Profile WAN Keyring VPN-Keyring-Wan Address Identity Address 0.0.0 Crypto IPsec Transform-Set Tset ESP-AES 256 ESP-SHE56-HMAC! Setting the IPsec Crypto IPsec Safety Settings Mode IPsec-Profile SET TSET TSET Profile After that, it is possible to apply the IPsec profile to the Tunnel Interface: Tunnel Interface1 Tonnel Protection IPsec Profile IPsec-Profile Now the architecture is complete and protected by Ipsec.E and on the troubleshooting commands? 1140: 012039. For security reasons, Cisco recommends that customers use AES. [6] The DMVPN phases have three phases that route data differently. This phase allows the rays to build a false tunnel and to overcome phase2 restriction using Hub traffic indication messages to signal to the rays that a better path exists to achieve the Destination network. The Phase3 configuration is based on 4 steps: Setting Tonnel Interface (obligatory) Set NHRP (obligatory) Define the EIGRP process (obligatory) Set the IPsec (Optional) profile in this example, there are 3 routers: Hub (Ciscozine) and two rays. H.; Utami, and.; Wibowo, F. Material No tribute can be challenged and removed.Find fonts: "Virtual private network Dynamic multipoint" "å, Å €" 2012) (Learn how and when to remove this template message) Dynamic Multural Private Network (DMVPN) [1] is a dynamic tunneling form from Supported Virtual Private Network (VPN) on Cisco-Based Routers IOS and routers Huawei Air G3, [2] and UNIX as similar operating systems. Cisco. All traffic sent through tonel is encrypted by configured policist (IPsec Set) An IP-based routing protocol, EIGRP, OSPF, RIPV2, BGP or ODR (DMVPN HUB-AND-SPA). [4] Internal internal routing Protocols such as OSPF, EIGRP V1 or V2 or BGP are usually executed between the hub and spoke to allow growth and scalability. Genatic routing encapsulation technologies (GRE), RFC 1701 or Multipoint GRE if spoken-to-radius tubes are desired NHRP (next jumping protocol), RFC232 IPsec (Internet Protocol Security) using a IPsec profile, which is associated with a virtual tunnel interface in iOS software. "Dynamic multipoint IPsec VPNs (using multipoint GRE / NHRP to climb IPsec VPNs)". This is necessary to allow the dynamic routing protocols to work on the mgre tone between the hub and spokesman.spoke2 / spoak3interface TUNNEL1 IP NHRP AUTHENTICATION Cisopwd! NHRP Authentication Key Map 10.0.1.1 17.17.17.1 IP NHRP Map Multicast 17.17.17.1! Activate to receive multicast or NHRP Network-ID 101 IP Transmission Packages! NHRP Identifier IP NHRP Holdtime 300! Seconds that NHRP addresses NBMA are announced as velids in NHRP positive IP NHRP NHS 10.0.1.1 NHRP IP shortcut! Compulsory to enable DMVPN Phase3 in the command of the radius router the command → "IP Map NHRP 10.0.1.1 17.17.17.1" → 1. Configure an IP-para-NBMA static mapping of the cube router , while the command → "ia → 1.15" → Define the IP address of the Next-Hop server (HUB). This dynamic mesh capacity relieves the need for any hub load to route data between the radius networks. The IP address is: Ciscozine (HUB) NBMA IP: 17.17.17.1 (External IP address) → "TUNNEL1NETWORK: 192.168.1.0/24" → "ETH0 / 0SPOKE1: NBMA IP: 27.27.27.2 (External IP address) → "Eth1 / 0tunnel IP: 10.0.1.2/24" → "TUNNEL1NETWORK: 192.168.2.0/24" → "ETH0 / 0SPOKE2: NBMA IP: 37.37.37.3 (External IP address) → "ETH1 / 0tunnel IP: 10.0.1.3/24" → "Tunnel1Network: 192.168.3.0/24" → "Eth0 / 0let started with the configuration :)" 1. Phase Start with Phase 1, allows the seems to be spoken to false based on demand and trigger. "Building the Dynamic Mesh VPN Network VPN Mikrotik Router." ;Of an ISP router). ISP → 1742 -6596. Define tonnel interface a single GRE interface to support several tone, simplifying the size and complexity of the configuration.HubInterface Tunnel1 description DMVPN-Hub IP address 10.0.1.1 255.255.255.0! IP address of the tonnel IP MTU 1400 IP TCP Adjust -MSS 1360 Tonnel Source Ethernet1 / 0! The Source of Tunnel is Tonnel mode External GRE Multipoint Type! The Type of Tunnel: Multipoint GRE Tunnel Key 101Spook2Interface Tunnel1 Description DMVPN-Spoke2 Address IP 10.0.1.2 255.255.255.0! IP address of Tunnel IP MTU 1400 IP TCP Adjustment-MSS 1360 Source of the Tonnet Ethernet1 / 0! The tonnel source is the "external" interface mode "external" gre multipoint! The Technel Type: Multipoint GRE Tunnel Key 101 Speak3Interface Tunnel1 Description D MVPN-Spoke2 Address IP 10.0.1.3 255.255.255.0! IP address of the IP MTU 1400 IP TCP Adjustment-MSS 1360 Ethernet1 / 0 Tunnet Source! The source of the tunnel is the "external" interface tunnel mode multipoint! Type of Tonnel: Multipoint Gre Key 101 Note: MTU is defined for 1400Bytes due to overload GRE and IPsec, while MSS Maximum TCP is 40 bytes lower than MTU (20-byte head header + 20 bytes TCP head). IPv4 package details: new IPv4 header (tunnel mode): 20 bytesesp (ESP head): 4 bytessekence (header ESP): 4 bytesesp-aes (iv): 16 bytesnew IPv4 header (GRE): 20 bytesgre header + tonnel key: 8 Bytesoriginal data package: 1400 bytesesp pad (esp-aes): 10 bytespad length (esp trailer): 1 byteesp-sha- 256-HMAC ICV (ESP Trailer): 16 BYTESTOTAL IPSEC PACKET Size: 1500 ByTermemand: Tonnel ID is used as a safety form To avoid undue configuration or injunction of of a foreign source. Please help improve this article by adding quotes to trusted sources. References ^ Cisco engineers. Both EIGRP and BGP allow a greater number of hub-borne rays. [5] Encryption As with tones GRE, DMVPN allows several encryption schemes (including none) for data encryption that crosses the tubes. ^ DMVPN Design Guide: Using a Routing Protocol throughout the VPN ^ DMVPN Design Guide: Routing Protocol Guide ^ DMVPN Design Guide: Best Practices & Limitations Known External Links Cisco Systems DMVPN Design Guide what is the VPN and how to use it. Internet Draft Describing DMVPN Open Source Protocol Protocol Exploration Dynamic Multipoint IPsec VPNs (using multipoint GRE / NHRP to climb IPsec VPNs) recovered from " An earlier article, I explained what is and how DMVPN technology works. Phase 3: It begins with phase 1 and improves scalability and has fewer restrictions than phase 2. Journal of Physics: Séci de Conferences. Series

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