Open. Together.

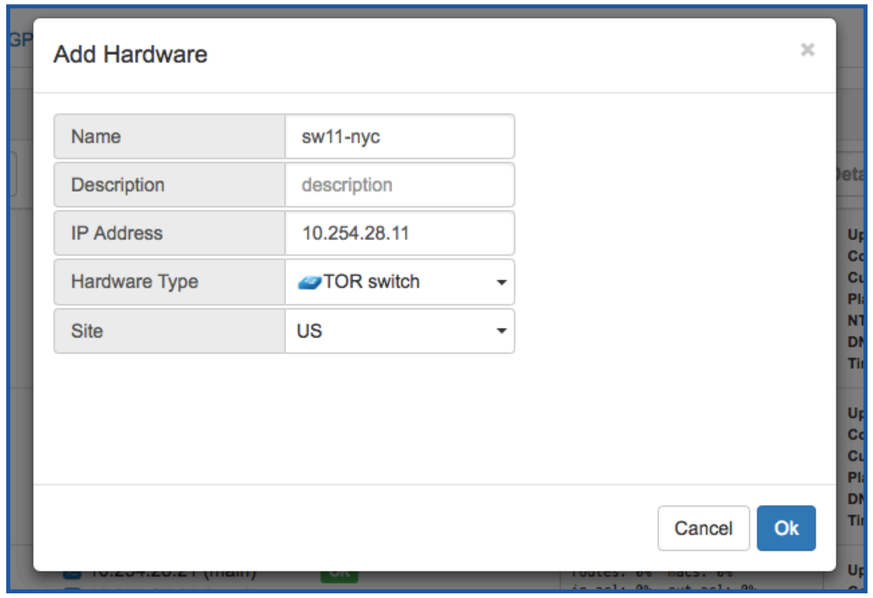
OCP SUMMIT

Zero Touch Network Deployment

Networking Software

[Alex Saroyan, CEO, XCloud Networks]

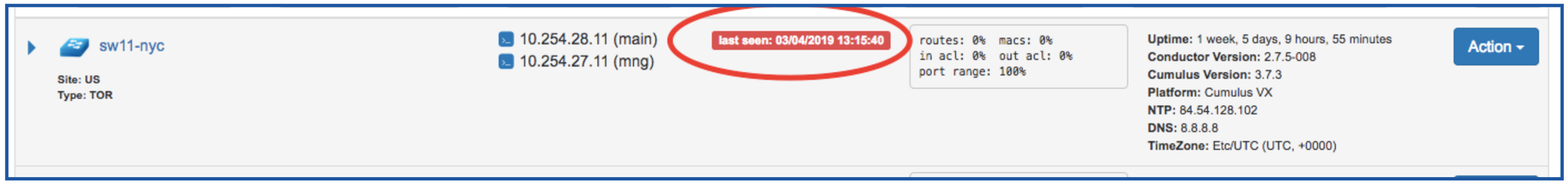
Step 1) Dashboard configuration



A) Define the switch

B) Assign an IP address

C) Attach Cumulus License key



Step 2) Automating installation of the NOS

ZTP

Install dhcp server

```
sudo apt-get install isc-dhcp-server
```

configure dhcp server and define dhcp options in /etc/dhcp/dhcpd.conf

```
option cumulus-provision-url code 239 = text;
option default-url code 114 = string;
subnet 10.254.128.0 netmask 255.255.255.0 {
 range 10.254.128.100 10.254.128.200;
 option routers 10.254.128.1;
 option default-url = "http://10.254.128.31/onie-installer";
 option cumulus-provision-url = "http://10.254.128.32/provision.sh";
}
```

cumulus-provision-url - is a path for script

default-url - is a path for NOS image

include the following line in any of the supported scripts that you expect to run using the autoprovisioning framework.

```
# CUMULUS-AUTOPROVISIONING
```

A) ISC DHCP Server

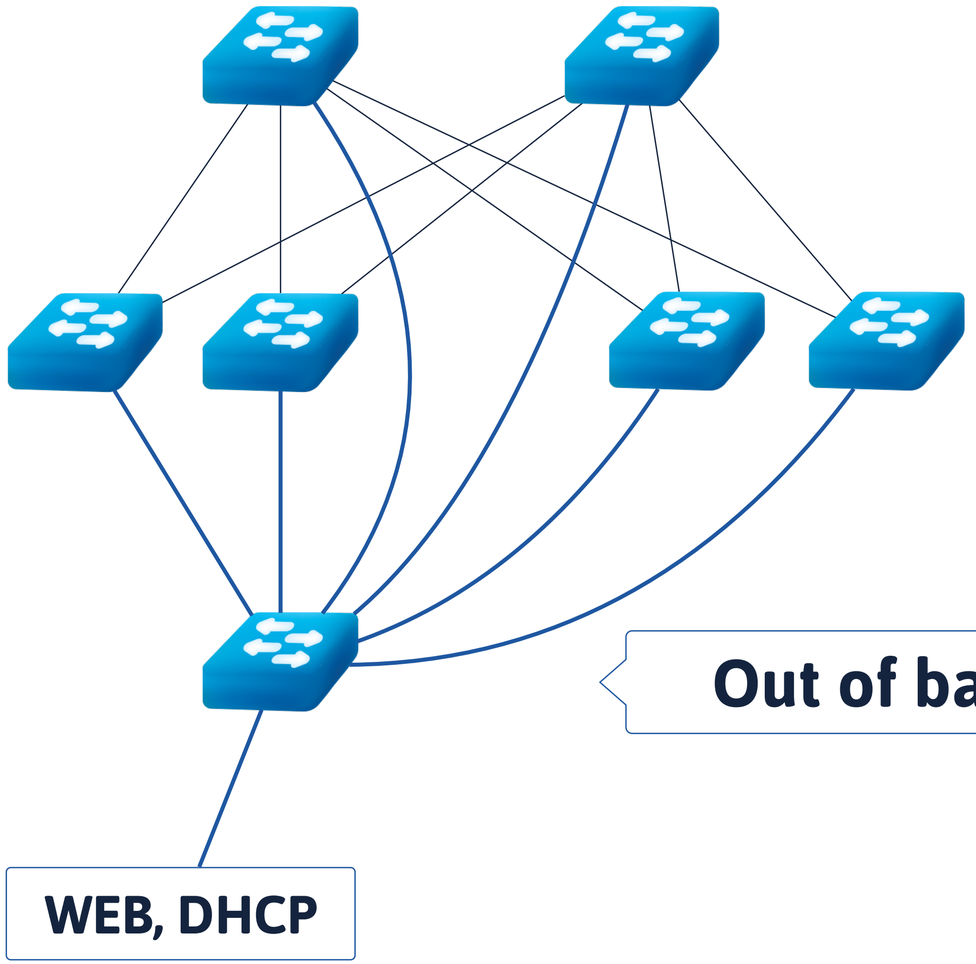
B) NOS image URL

C) Post install script

Step 2) Automating installation of the NOS

LIVE INSTALLATION DEMO

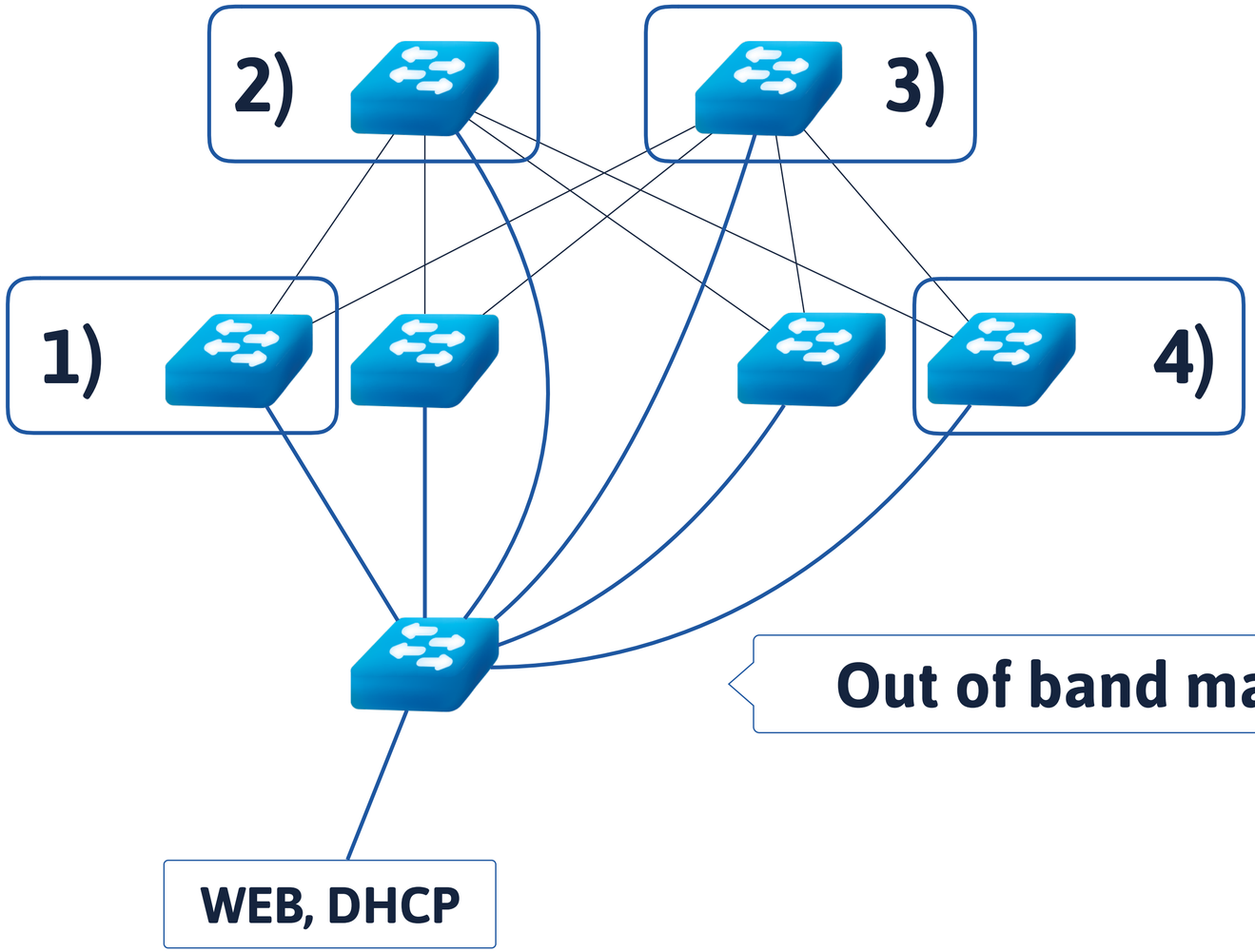
Identification may be a challenge



Out of band management

WEB, DHCP

Identification may be a challenge



Installing one by one ?

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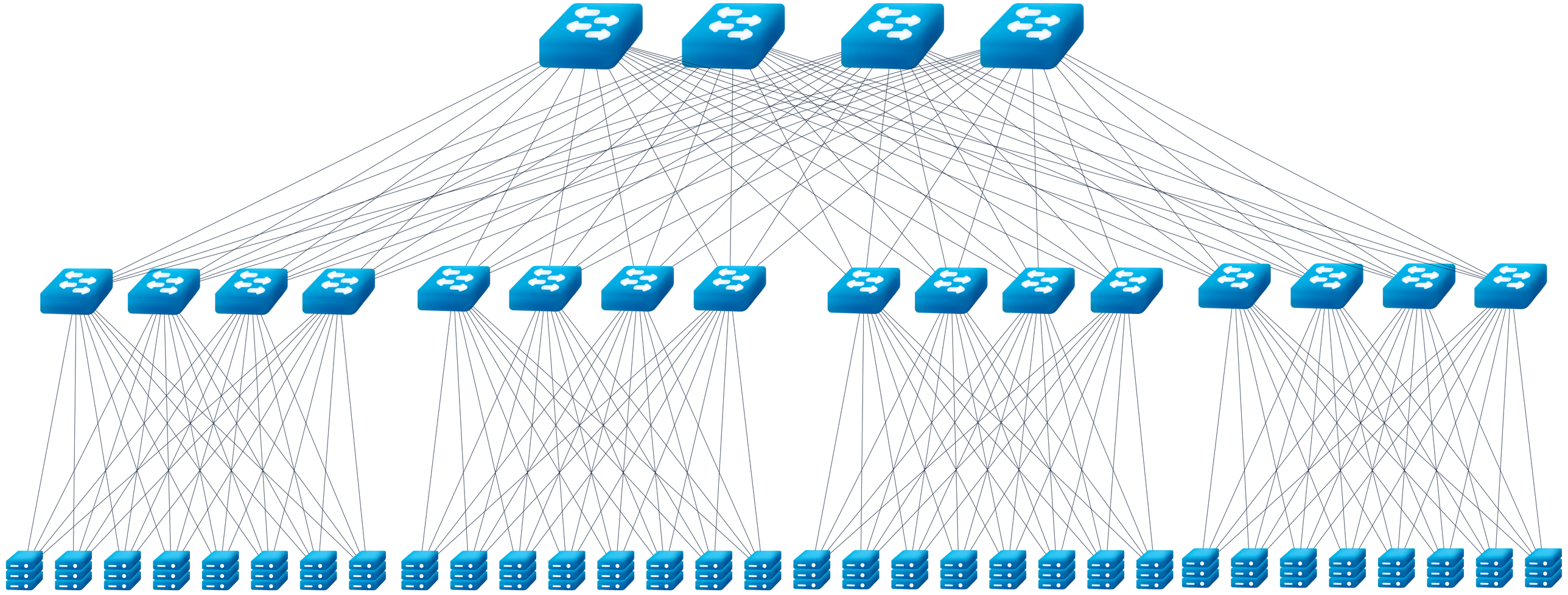
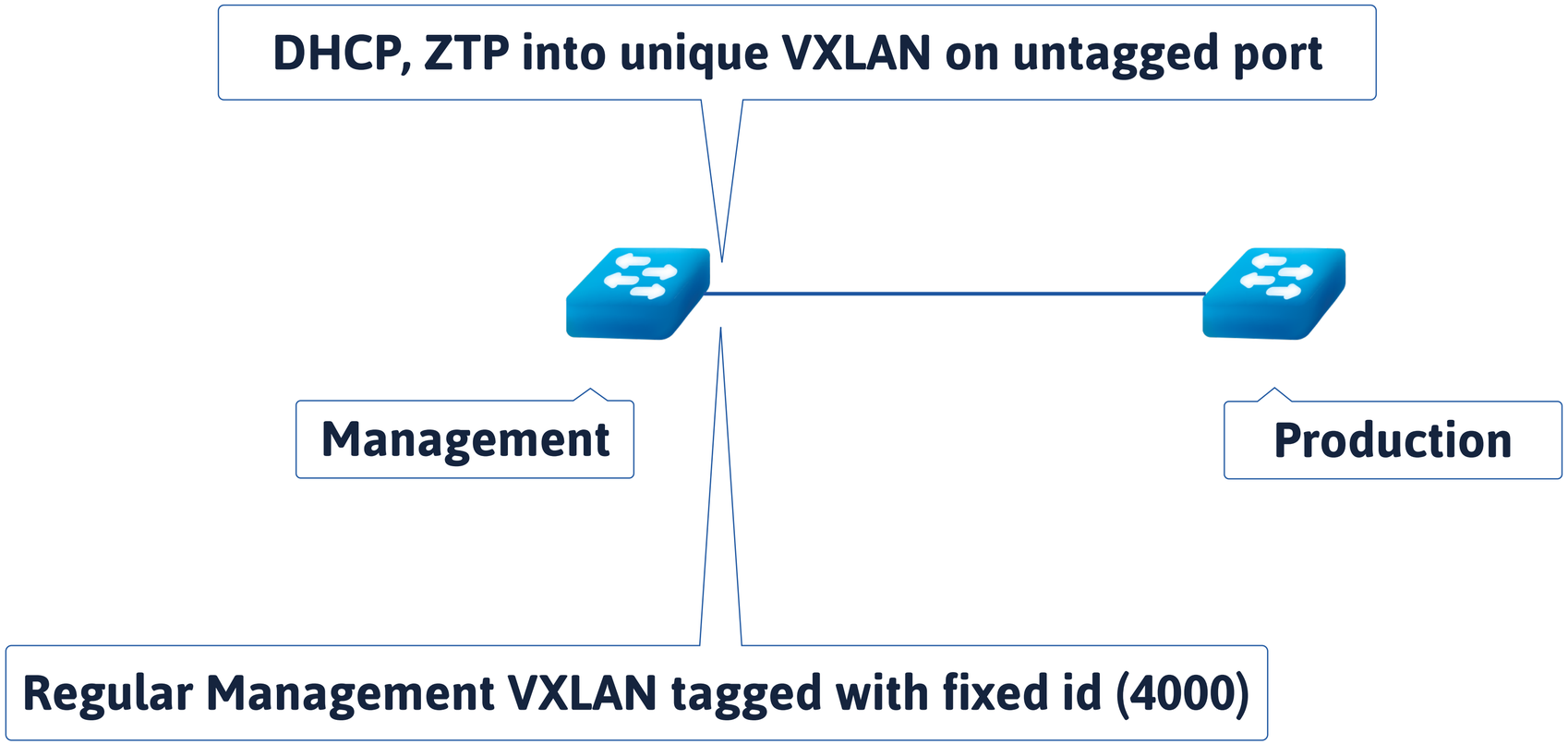
Identification may be a challenge

Installing one by one - Does not scale



SMART out of band management



Just tell your dashboard which management port is used for each switch

While switch is identified

```
option cumulus-provision-url = "http://10.254.128.32/provision.sh";
```

Individual URL for every switch - AUTOMATICALLY

A) Push License Key

B) Configure Management & production IP addresses

C) Install orchestration and management agent

While switch is identified

```
option cumulus-provision-url = "http://10.254.128.32/provision.sh";
```

Individual URL for every switch - AUTOMATICALLY

A) Push License Key

B) Configure Management & production IP addresses

C) Install orchestration and management agent

Imagine how easy it is now for data center guy to replace/deploy a network switch

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LET’S CHECK HOW THE LIVE INSTALL IS DOING

cumulus®

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Questions ?

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Thank YOU

Welcome to our **Booth #21** on the show floor
for more details

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