COMVERSE UNIVERSITY

Call Control Server (CCS)

Comverse ONE

Lesson Objectives

By the end of this lesson you will be able to:

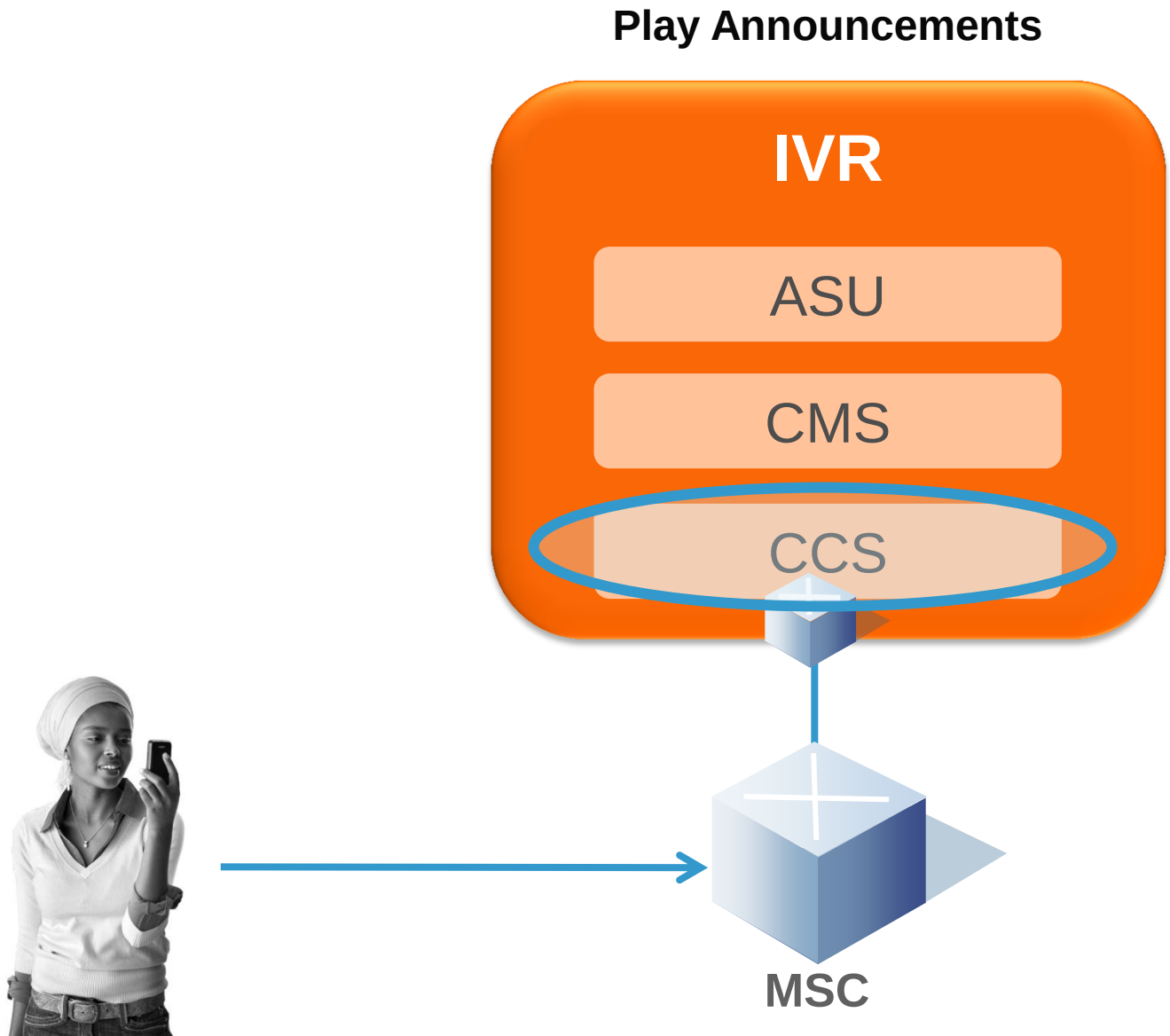
- List the Call Control Server (CCS) functionalities in the Comverse ONE IVR service
- List the CCS structure and connectivity

Agenda

CCS Functionalities

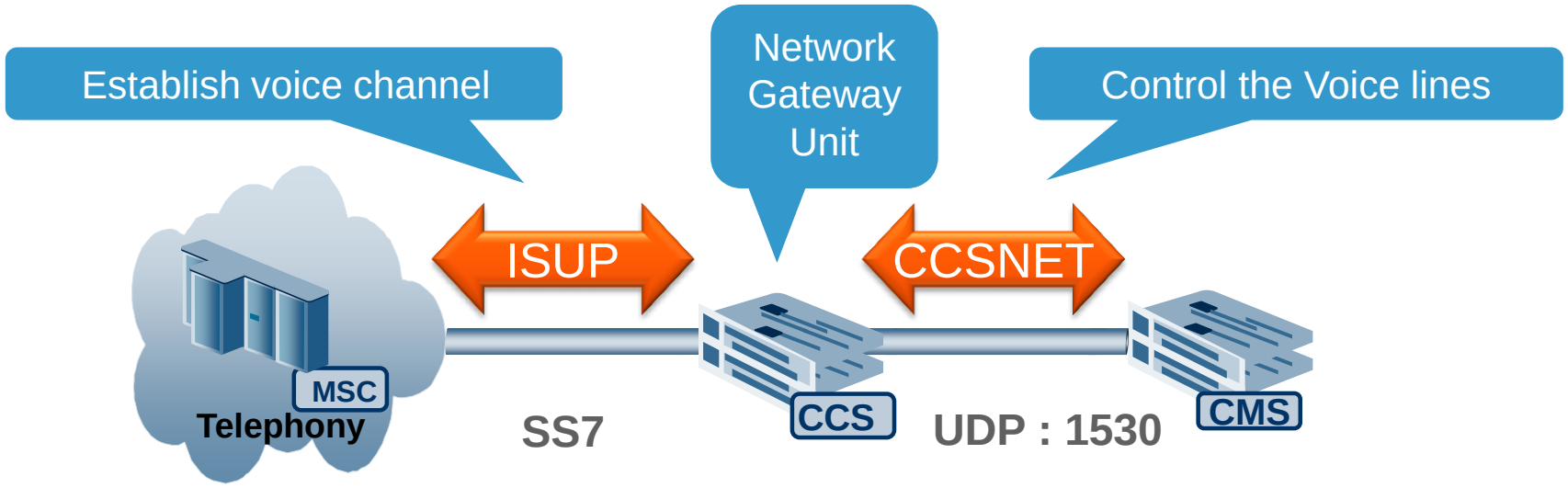
CCS – Structure and Connectivity

CCS Part of Comverse ONE IVR System



CCS Functionalities

- Network gateway unit to the Comverse One IVR service
- Converts SS7 into internal CCS – CMS language



ISUP Translated to CCSNET

MSC ISUP CCS CCSNET CMS

New call from a subscriber

IAM

SETUP-REQ

Open one-way voice path

ALERT-IND

ACM

Open two-way voice path

ANSWER-IND

Opening of a voice channel

ANM

Voice path needs to be closed

RELEASE-IND

REL

RLC

RELEASE-RESP

Closing of the voice line

Confirm the disconnection of the call

Review Question

Which of the following statements about the CCS is **NOT** true?

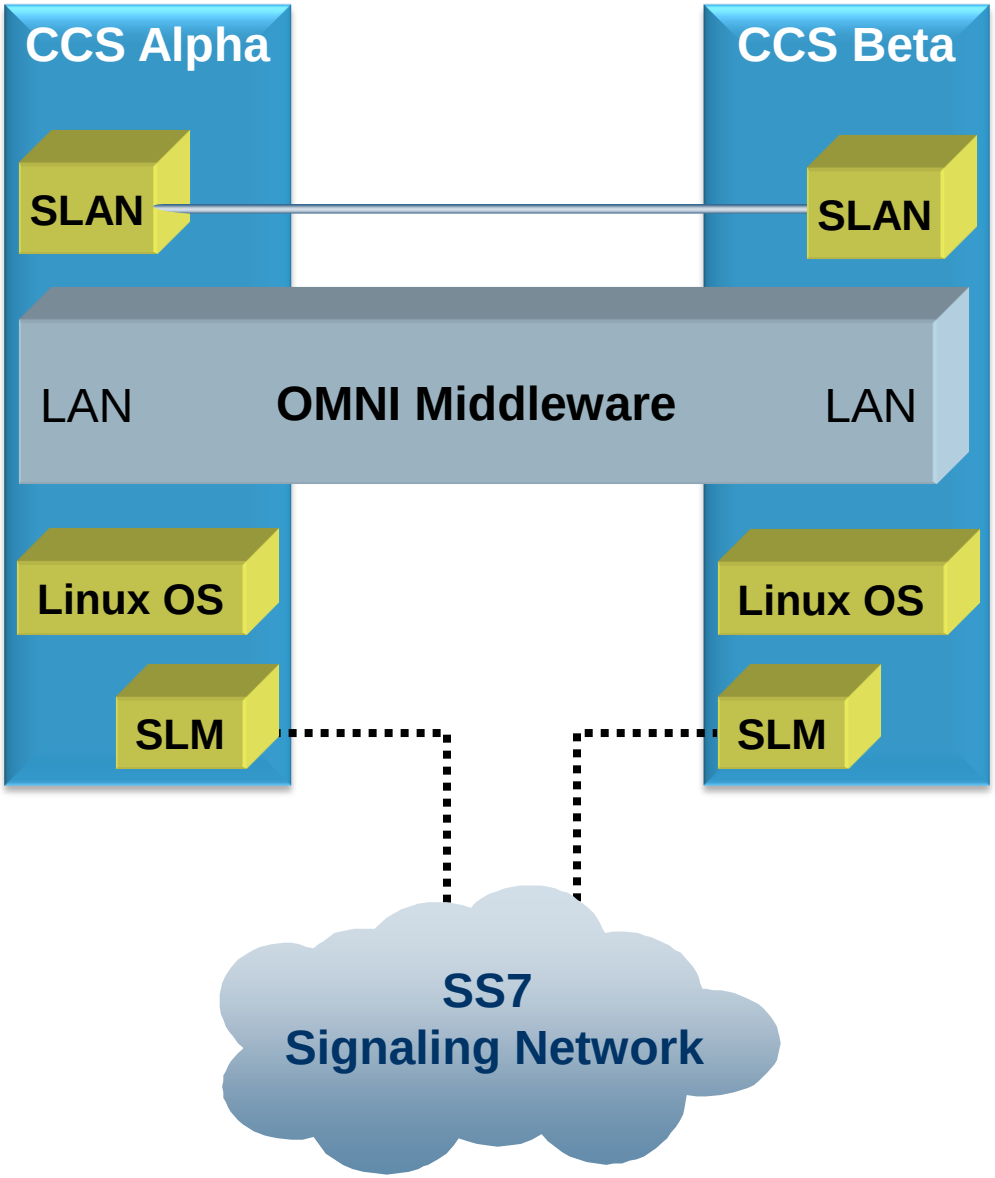
1. Network gateway unit to the Comverse ONE IVR service
2. Responsible for playing announcements
3. Converts SS7 into internal CCS – CMS language
4. Acts as a Signaling Switching Point (SSP)

Agenda

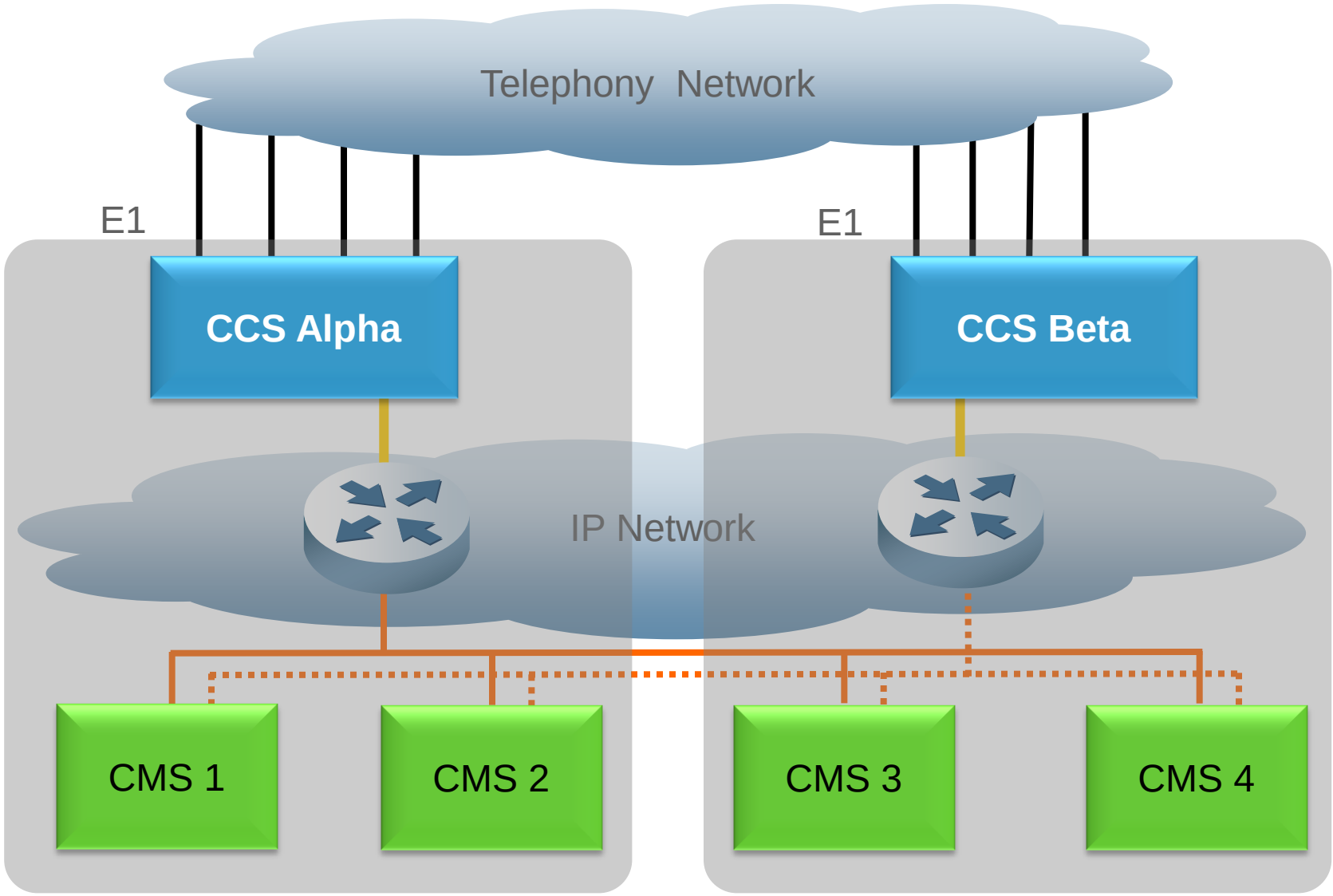
CCS Functionalities

CCS – Structure and Connectivity

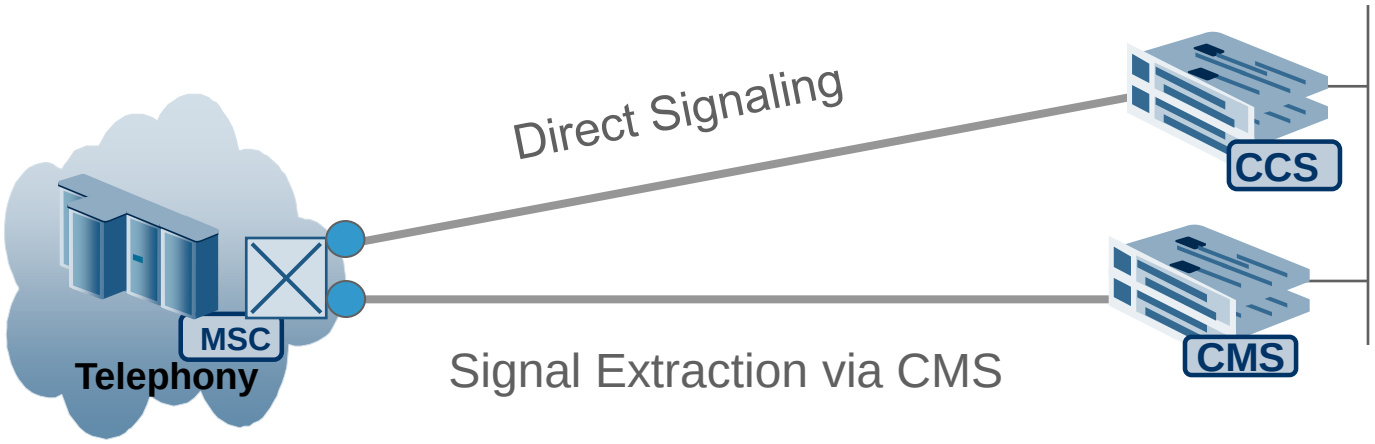
Structure and Connectivity



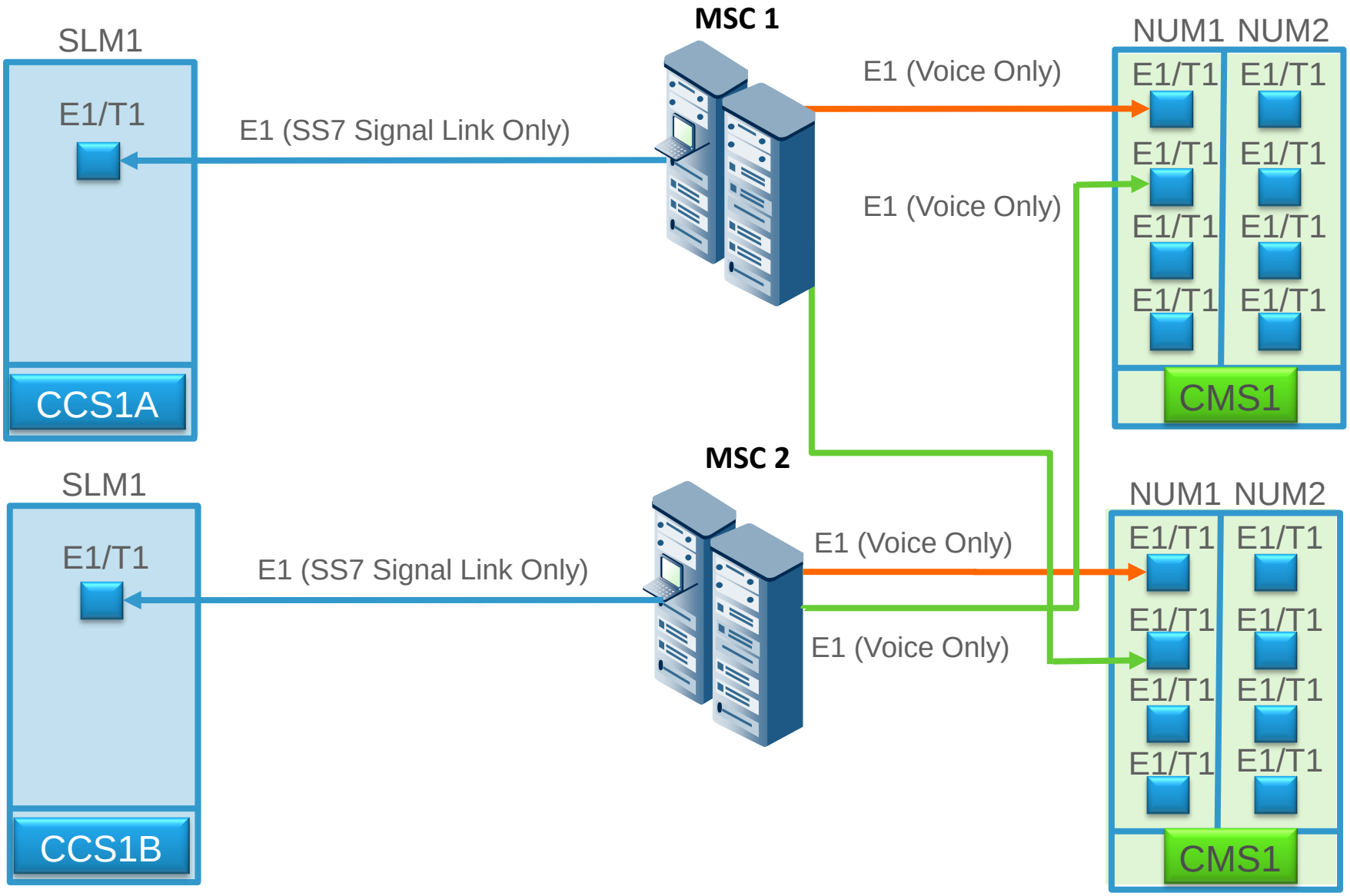
CCS Redundancy



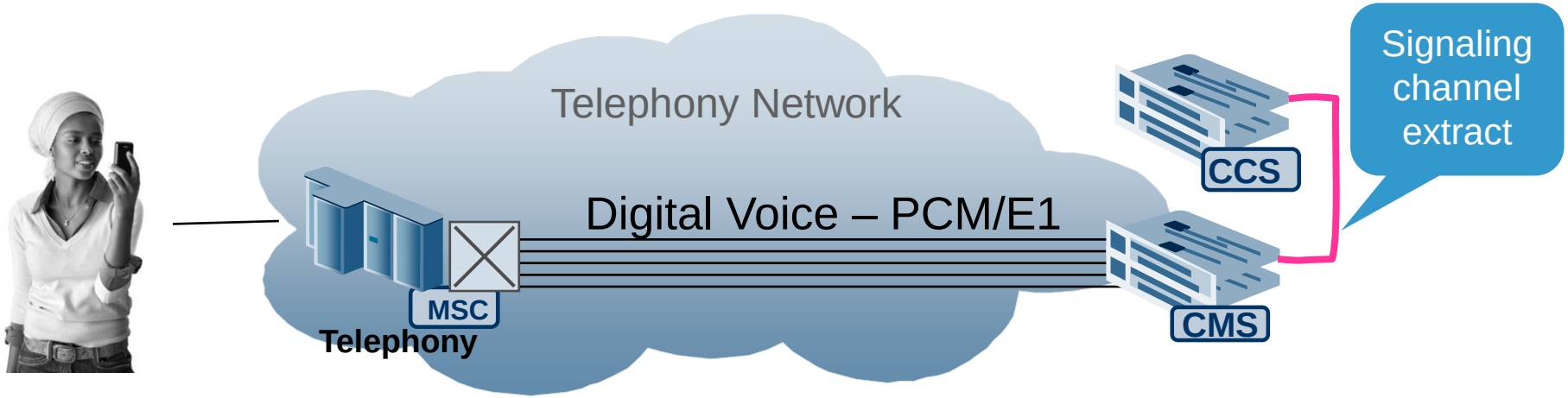
Physical Connections to the CCS



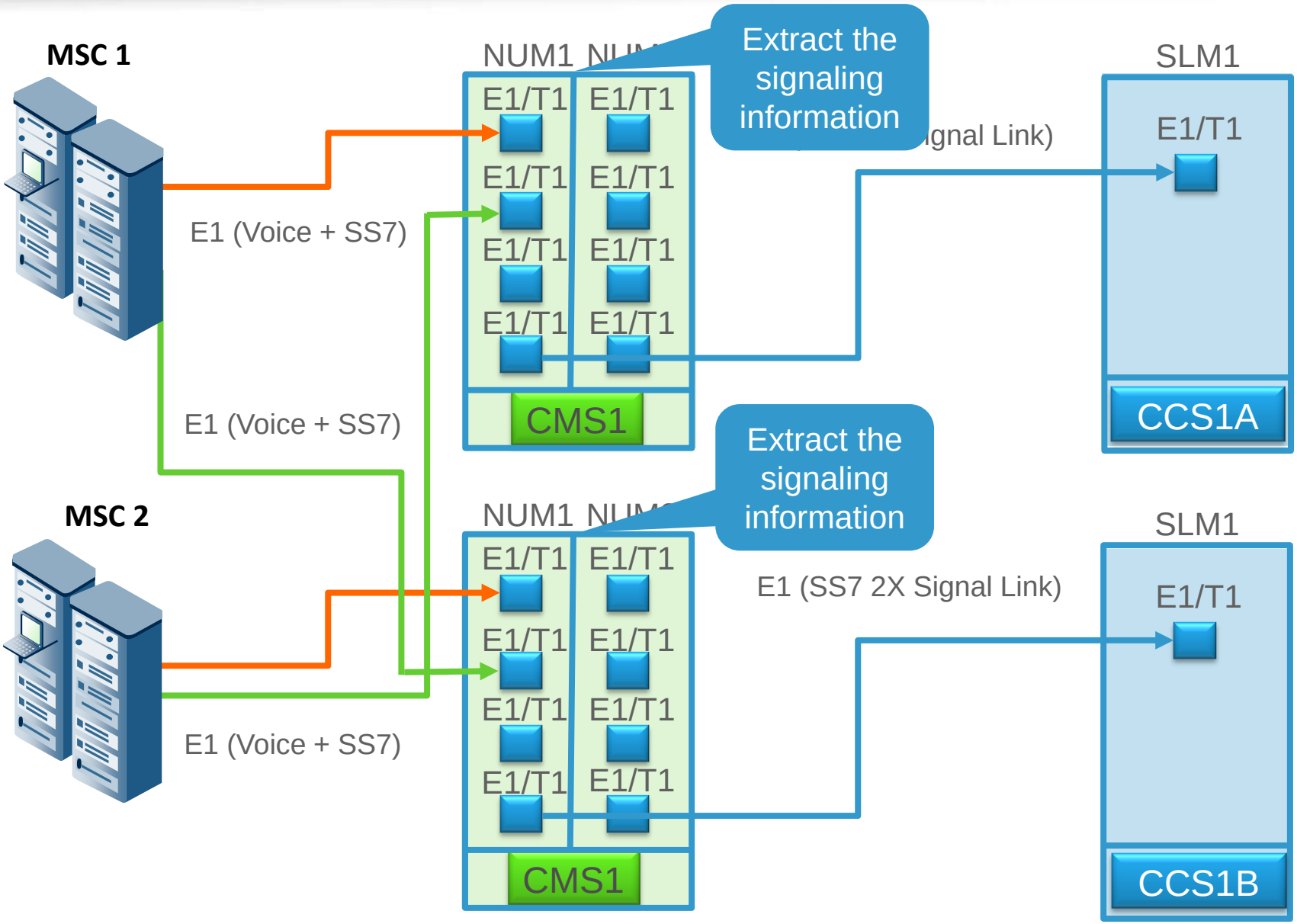
Direct Signaling



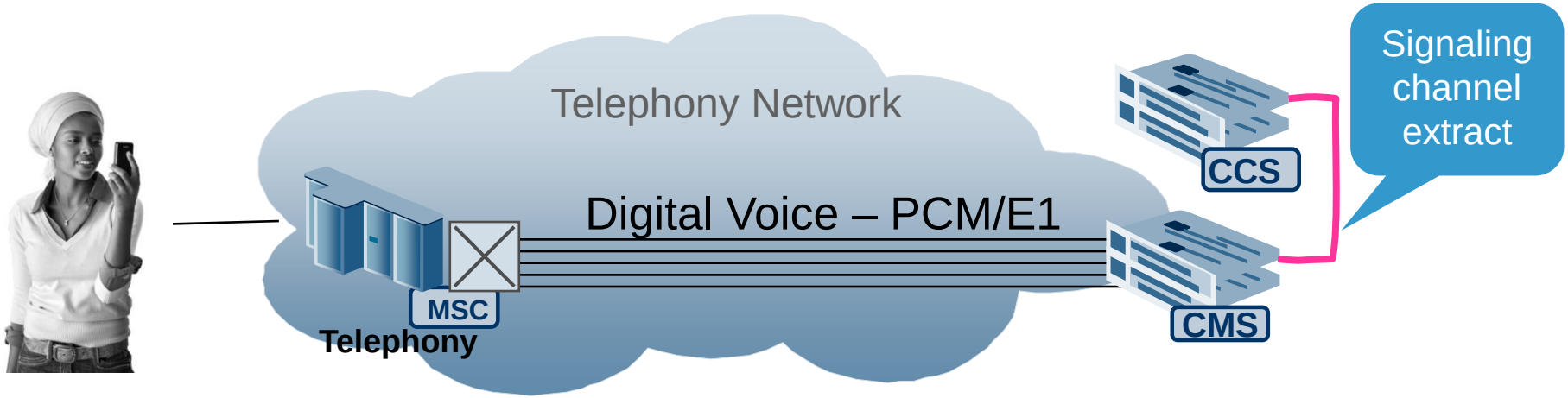
Signaling Extract



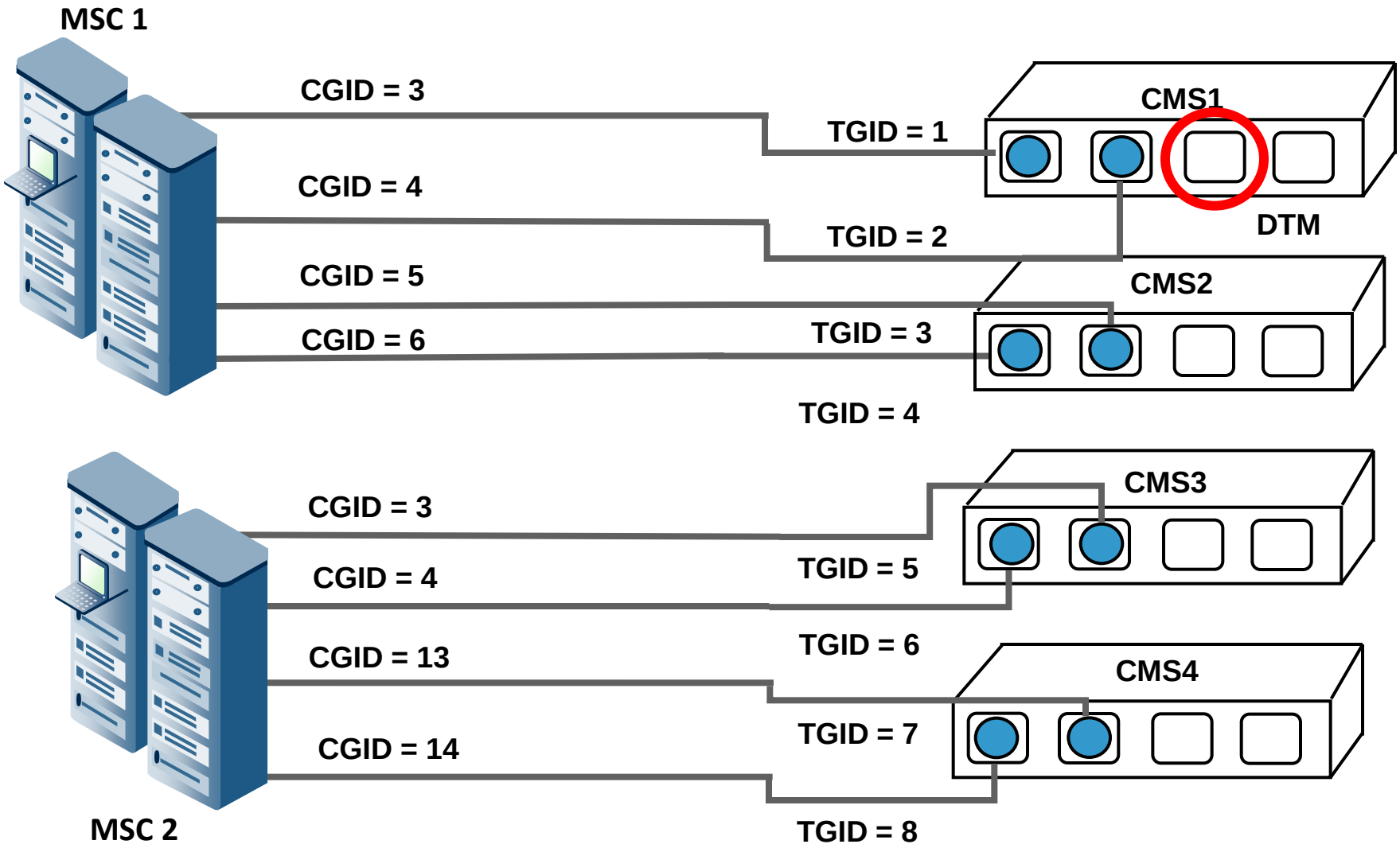
Signal Extraction via CMS



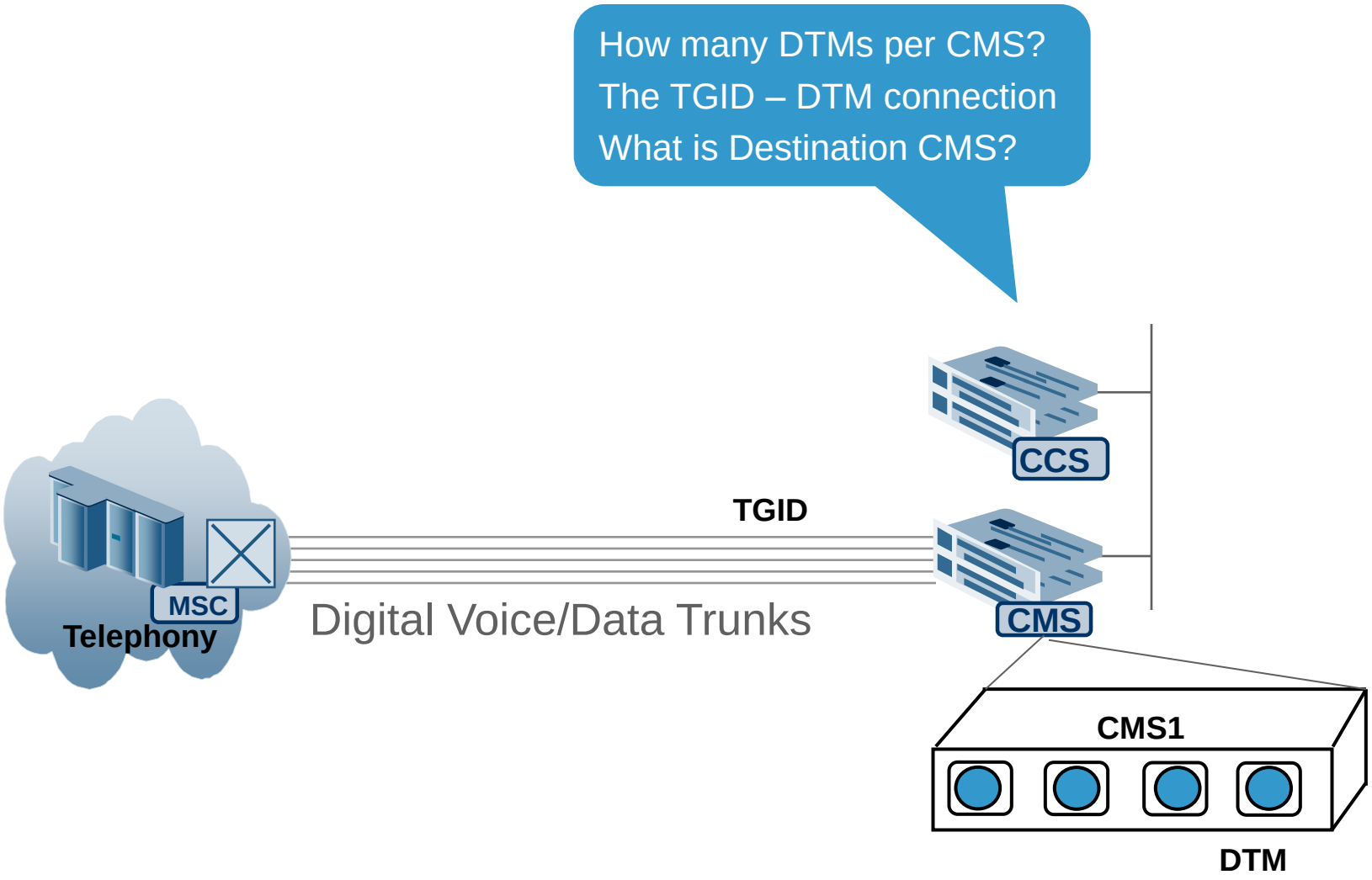
Basic Communication Terms (1)



Basic Communication Terms (2)



Basic Communication Terms (3)



Review Question

Please answer the following questions

1. Which of the following statements about Direct Signaling is **NOT** true:
   a. Separate E1 connection between the MSC and the CCS for SS7 signal link .
   b. Separate E1 connection between the MSC and the CMS that carries voice

2. Which of the following statements about Signal Extraction via CMS is **NOT** true:
   a. The E1s between the MSC and the CMSs carry both voice and SS7 signaling information
   b. Commonly used for the implementation of the physical connection to the CCS
   c. Separate E1 connected between the MSC and the CCS for SS7 signal link

Summary

This lesson has covered:

- The CCS functionalities
- The CCS structure and connectivity

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