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#CiscoLive



The bridge to possible

Cisco Ultra Cloud Core

Taking 2G, 3G, 4G and 5G towards a common cloud-based future

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BRKSPG-2038



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Agenda

- 5G market status
- Why is 5G SA adoption so slow?
- Cisco's path to 5G stand alone
- What comes next?
- Wrap-up

5G commercialization



172 operators in 68 markets launched mobile 5G
63 operators in 46 markets have plans to launch mobile 5G

5G SA commercialization



22 operators in 16 markets operate commercial 5G SA
9 operators in 9 markets have plans to launch 5G SA service

Why adoption at a snail's pace?



- **Lacking convincing business justification**
 - Both for operators and vendors
 - Flat or declining ARPU environment
- **Technology complexity**
 - Control and user plane separation
 - Service based architecture
 - Micro-service container-based infrastructure
 - Delayed BSS ecosystem induced complexities
- **Parity & continuity conundrum**
 - “No baggage left behind”



Despite these challenges, we need 5G SA

Cost revolution. 5G does not only bring about an architectural step change, but it also brings with it an expectation of a step change in cost to build and operate 5G infrastructure.



Increased capacity & bandwidth



Lower cost per bit



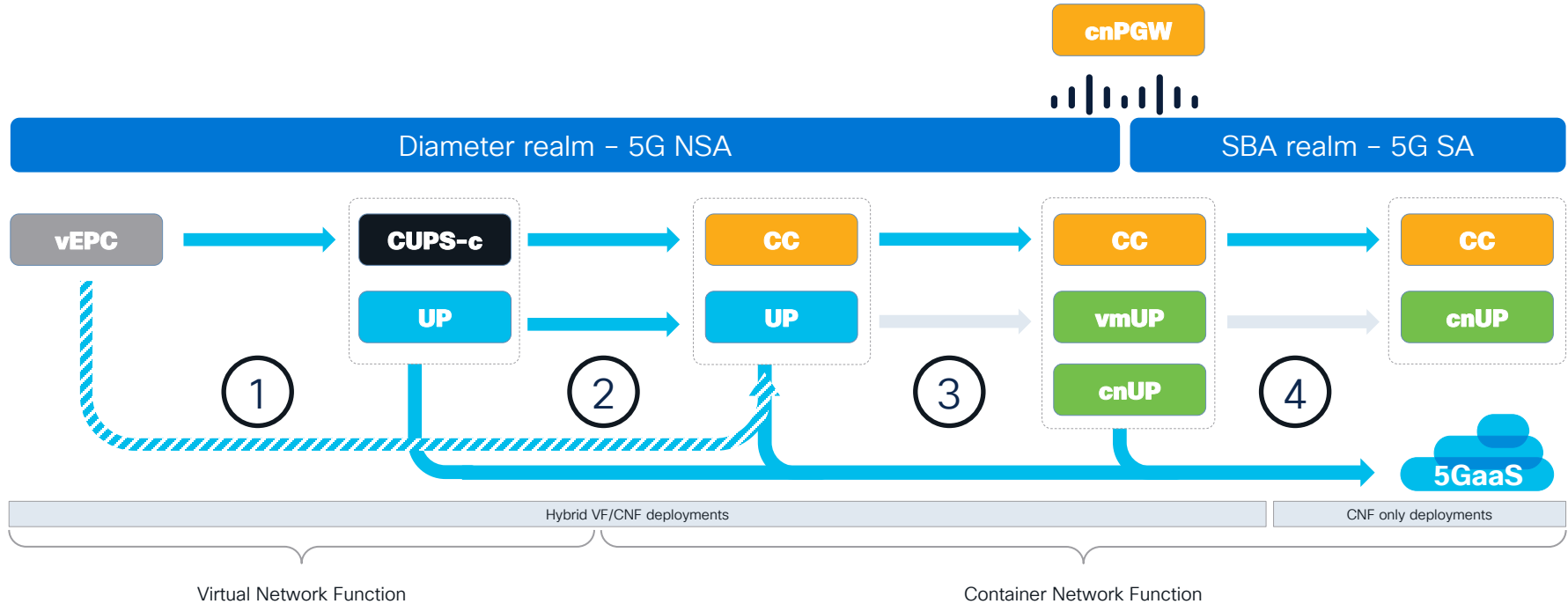
Lower operational cost



New technology for a new generation

Cisco strategy is to drive accelerated adoption of 5G SA by overcoming adoption hurdles

Steps to 5G SA

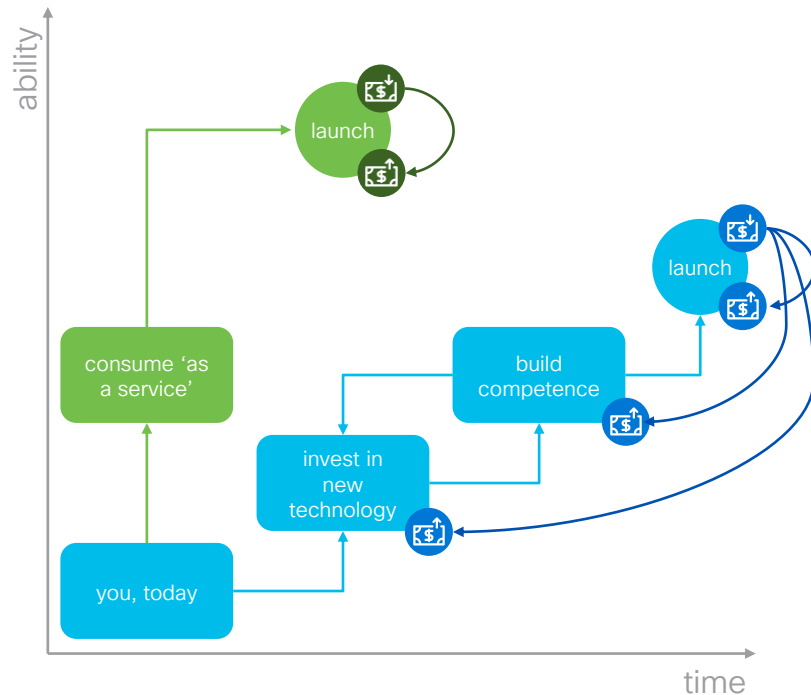


Change of plans...



Why as a Service?

- Faster time to market
- Higher level of ability sooner
- Cost aligned with revenue



One platform, multiple service offers

enterprise & service provider market – B2B & B2B2X

today's focus

IoT



connected car & assets

Private 5G



private network

Public 5G



mobile broadband

Future Services



other target segments

Platform X



core
network



billing



customer
experience



enterprise
services



operations



subscriber & SIM
management



cloud
management



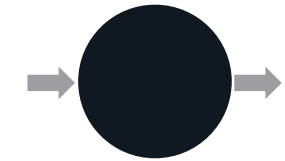
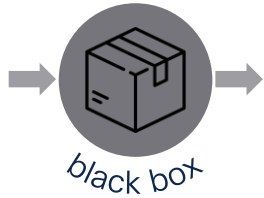
open
API



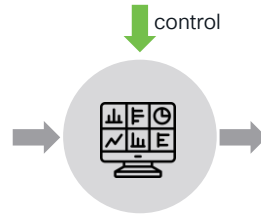
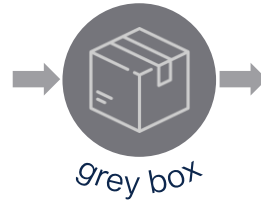
automation

public & private hybrid infrastructure deployment models

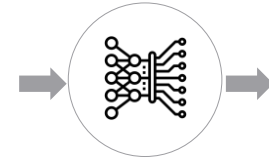
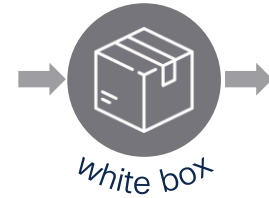
Let's talk boxes



internal visibility: ✗
influence behavior: ✗

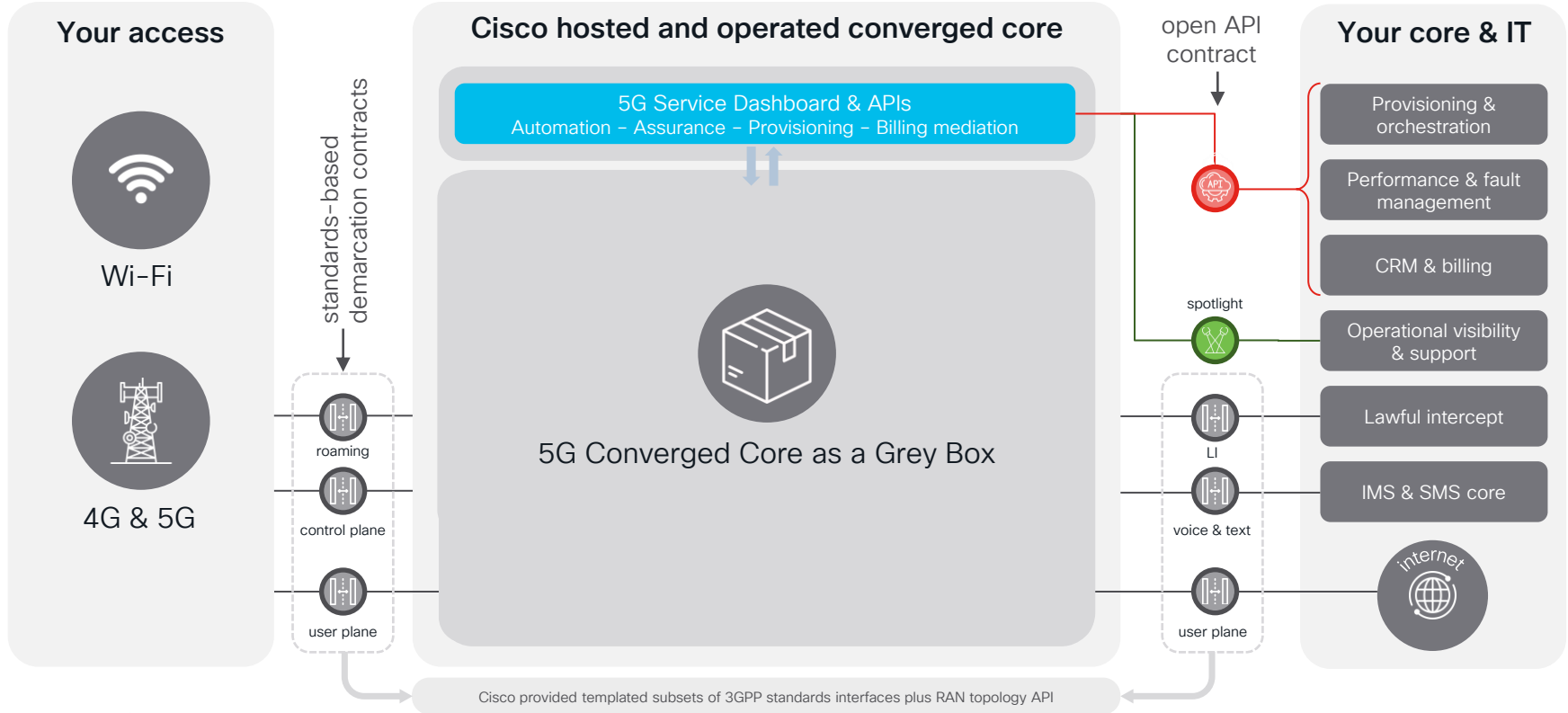


internal visibility: limited
influence behavior: limited

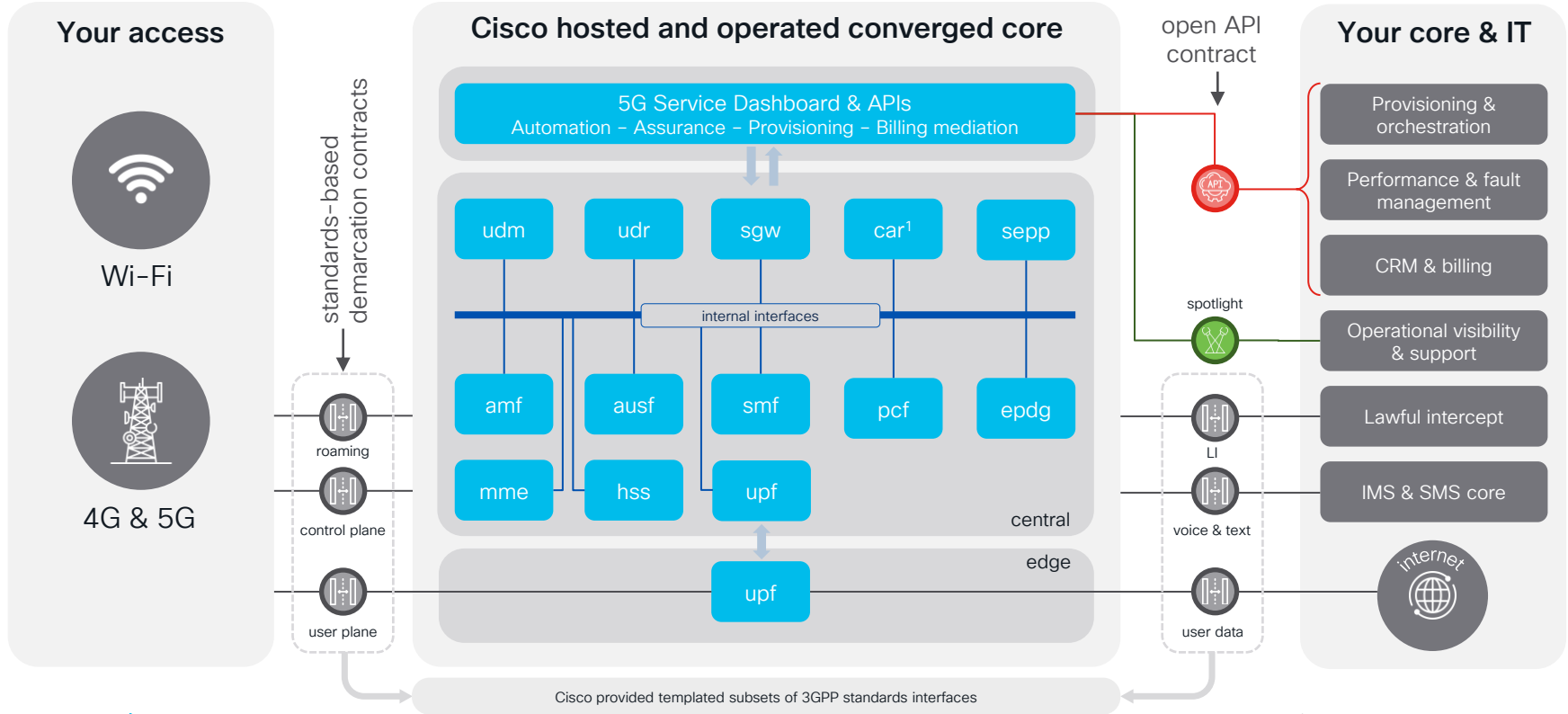


internal visibility: ✓
influence behavior: ✗

Cisco's Mobile Broadband as a Service



Cisco's 5G as a Service – under the hood



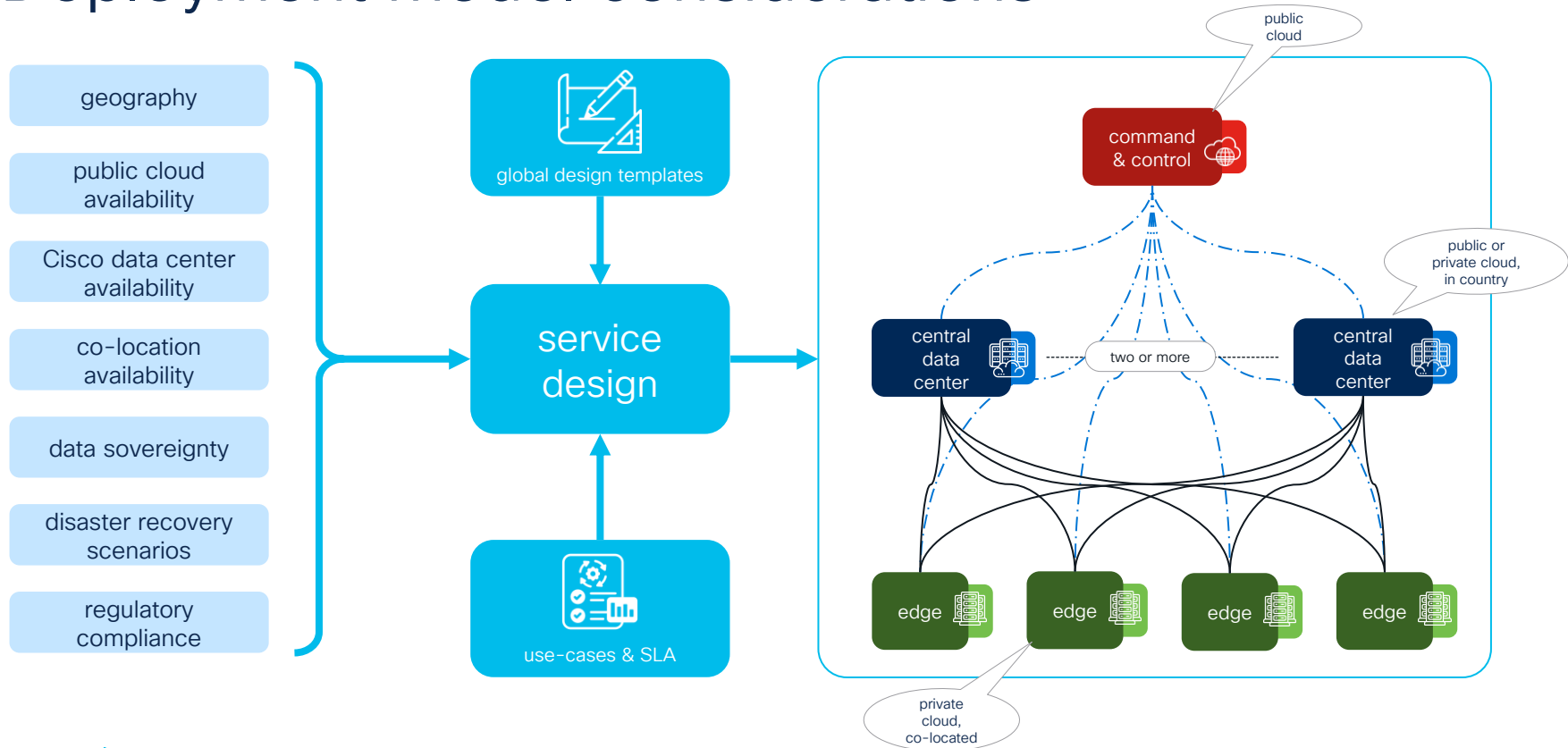
¹ Charging, account balance and rating

Debunking a common misconception



“5G as a Service” does not imply everything runs in a public cloud

Deployment model considerations



Wrap-up & call to action

- 5G SA adoption has been slow because of complexity and challenging business case
- Cisco's strategy is to speed up 5G SA adoption by eliminating complexity and addressing the business case challenges by offering its 5G SA portfolio 'as a service'
- **Call to action:** envision a future where you work towards outcomes using services rather than re-inventing architecture wheels

Want to know more? Contact me @ pnijster@cisco.com or see me here at Cisco Live!

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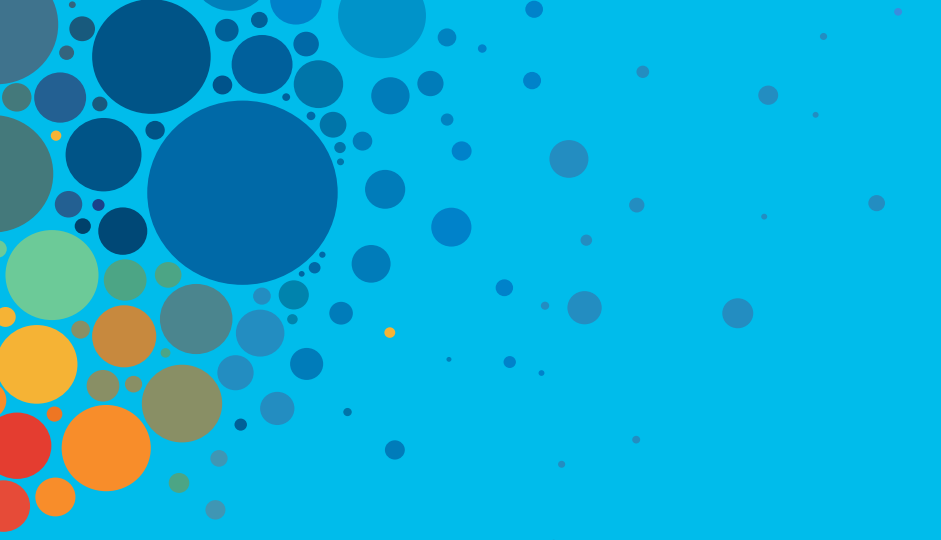
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