



_____	03
_____	03
_____	04
_____	04
2023 _____	05

2022 _____	06
_____	07
2022 _____	07
_____	07

" + "	08
_____	08
_____	09
2022 _____	09
_____	09

NSA IPv6 _____	10
APNIC IPv6 IPv6 _____	10
_____	10
_____	11
_____	11
Dell'Oro _____ 810 _____	11

_____	12
IDC 2023 _____	12



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2

13 14

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4



2023

17

400







2022 1.58 1. 8.0% 2.

5.1 3. 32.4%

10%

1." "

2.

2. 2022 1.5G 5.9

41.8 / 20.8 / 100Mbps

5.54 93.9%

65% 1000Mbps 9175

2.7 15.6% 3." "

2022 35.28

1.

2022 4193

3.3% 2. 2022 2618 GB

18.1% 64.4% 3. 2022

" 5G+ " 4000 5G

5G 1.4 5G



2025

GDP

2021

39.8%

50%

2021

12.5

22.8

228.7

86.2

11

5G

21.1%

5G

5G

2022 1-11

124.8%

C114

IDC

2022Q3

IaaS+PaaS

10.2%

104%

TOP10

IDC

2022

2022

121.9

27.7%

17.7%

10.4%

8.2%

IDC

C114



" + "





NSA National Security Agency

IPv6

IPv6

NSA

IPv6

IPv6

IPv4

IPv6

NSA

Neal Ziring

"

IPv4

IPv6

IPv6

"

IPv6

IPv6

IPv6

IPv6

DNS

IPv4

IPv6

NAT64

IPv6

NAT64

IPv6

IPv4

RFC 6052

" IPv4-Embedded IPv6

"

IPv4

IPv6

APNIC

ETNO

2023

2030

2022

55.6%

FTTH

RAN

2021

563

/

10

160



20% 1940
11

30

3

2021

10

2021

15

50

C114



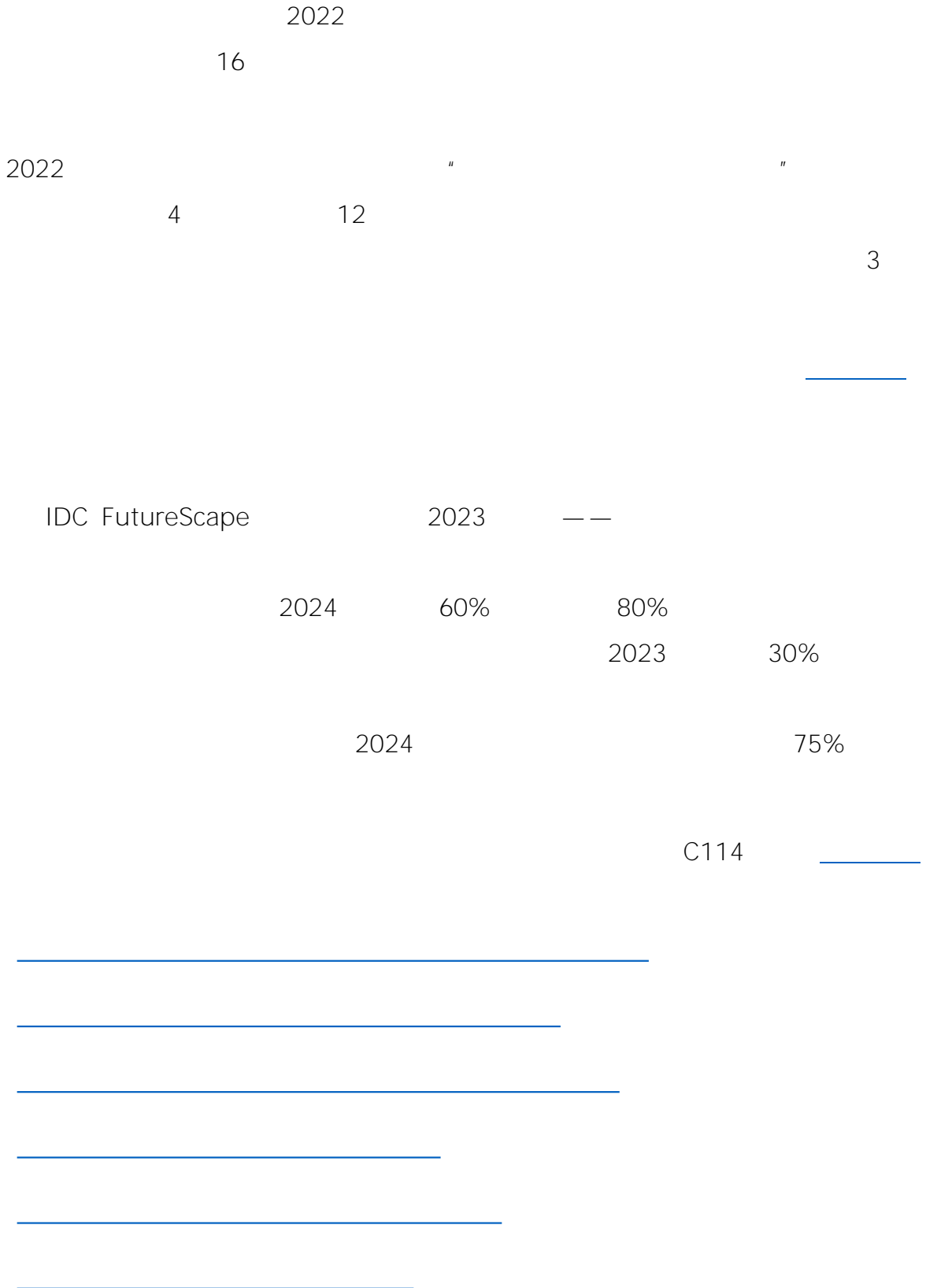
Dell' Oro Group

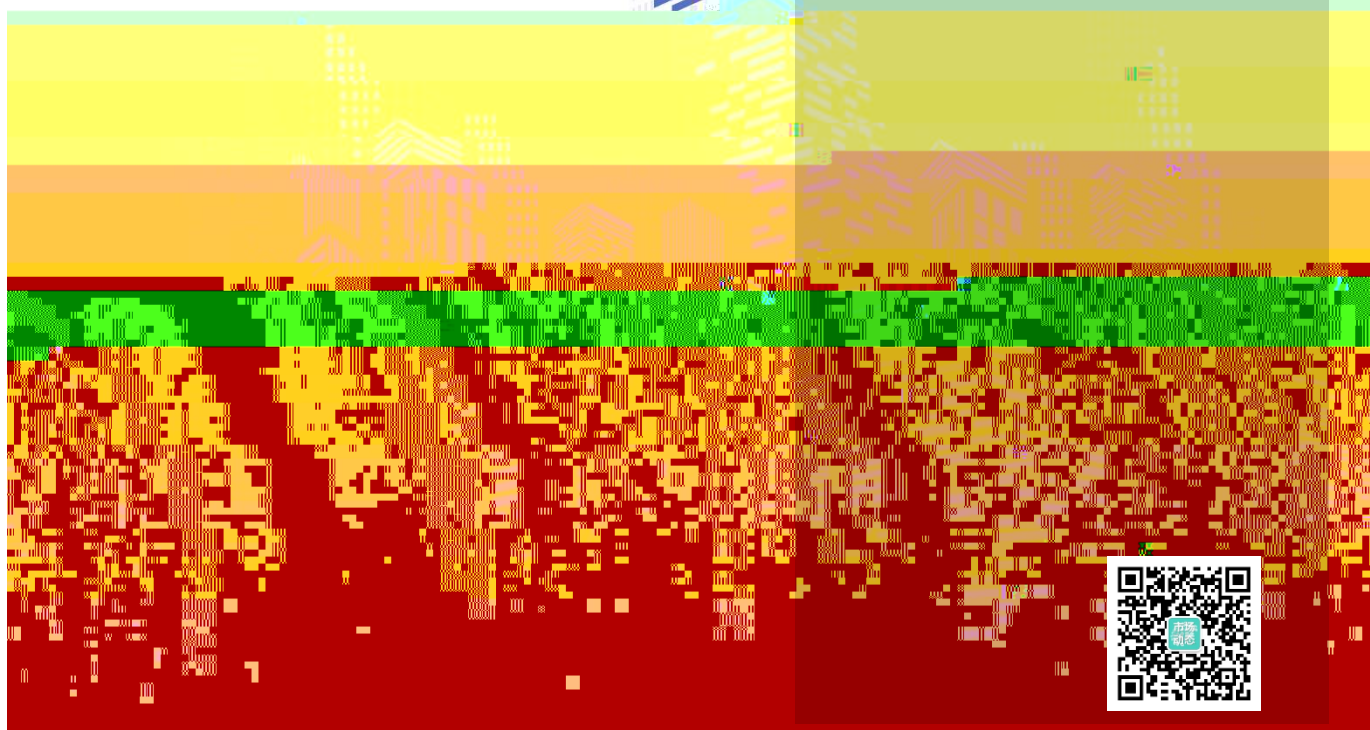
3%

2027

170

810





6260 3794

scgl@cernet.com

