# **IP for live production** Migration and interoperability

**YANA 0318** 

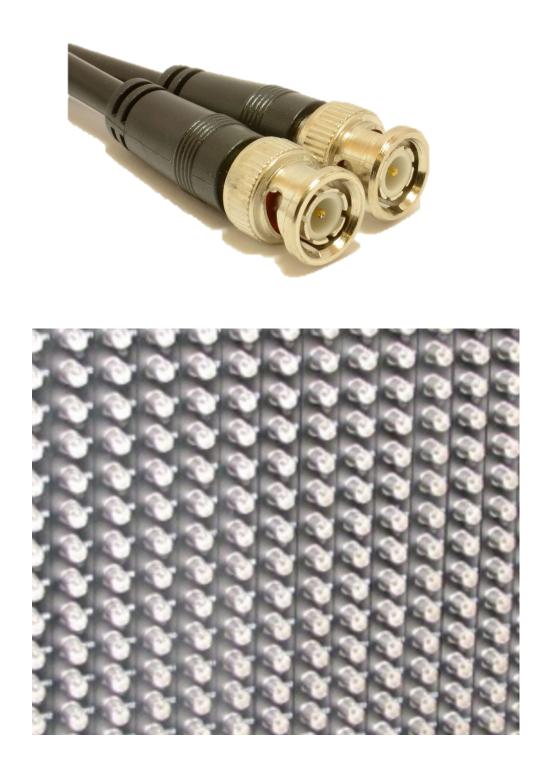
## Peter Brightwell, BBC R&D



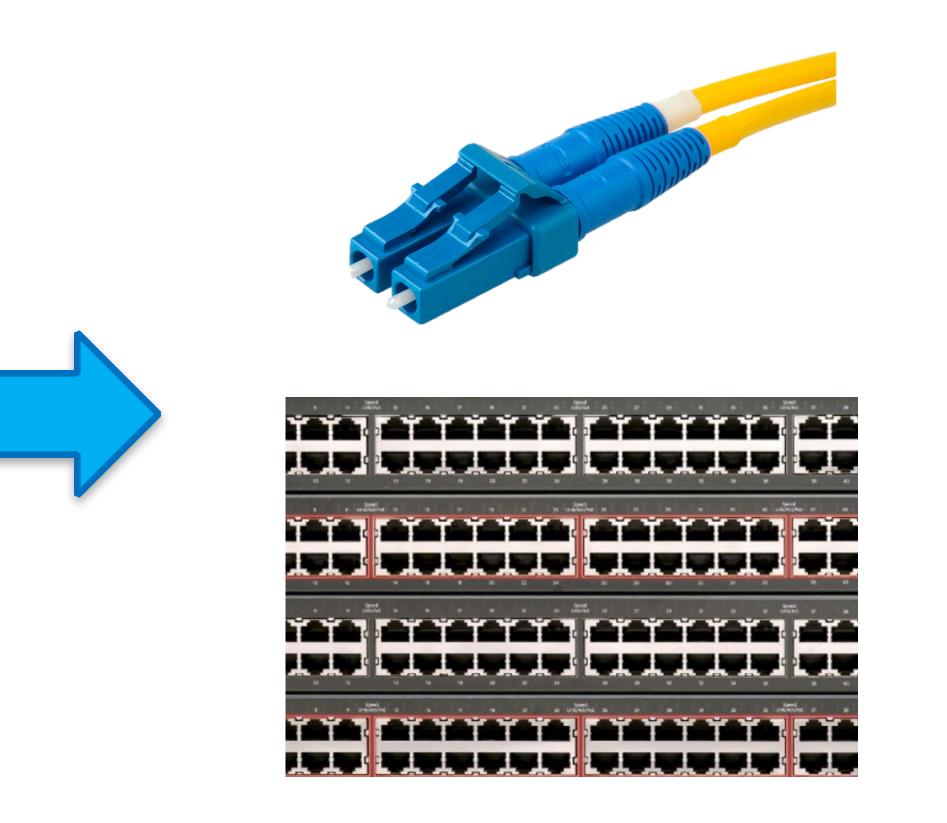




# Broadcast production facilities: Industry's current concern









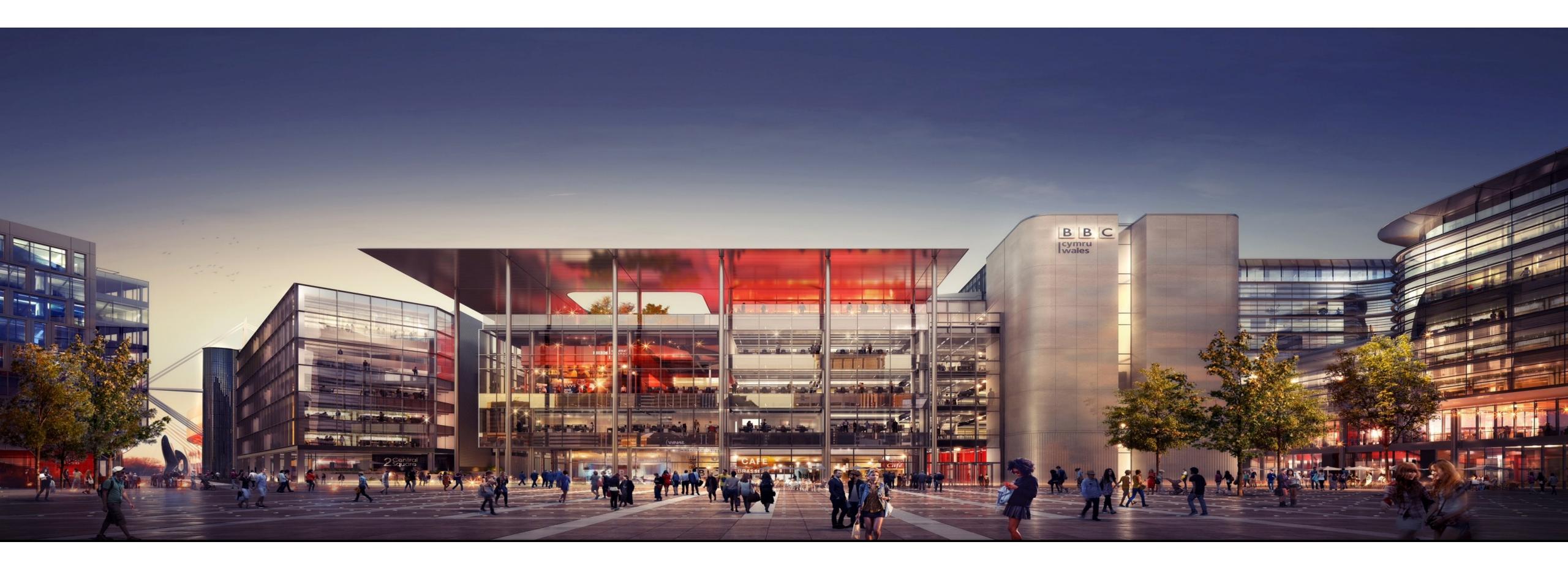
# Cardiff Central Square



## BBC cymru wales



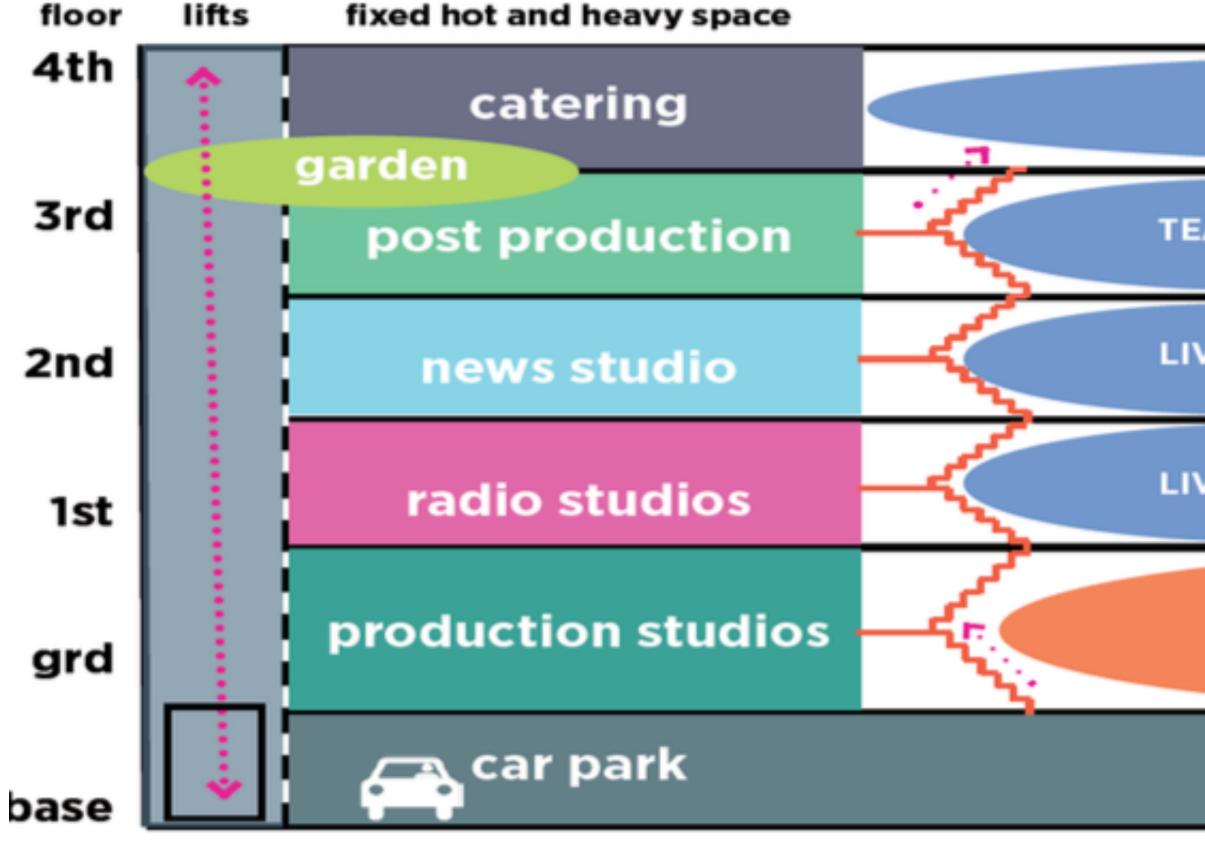
# Cardiff Central Square



# BBC cymru wales



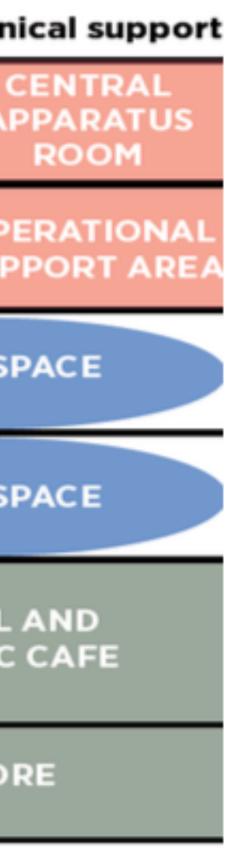
# Cardiff Central Square

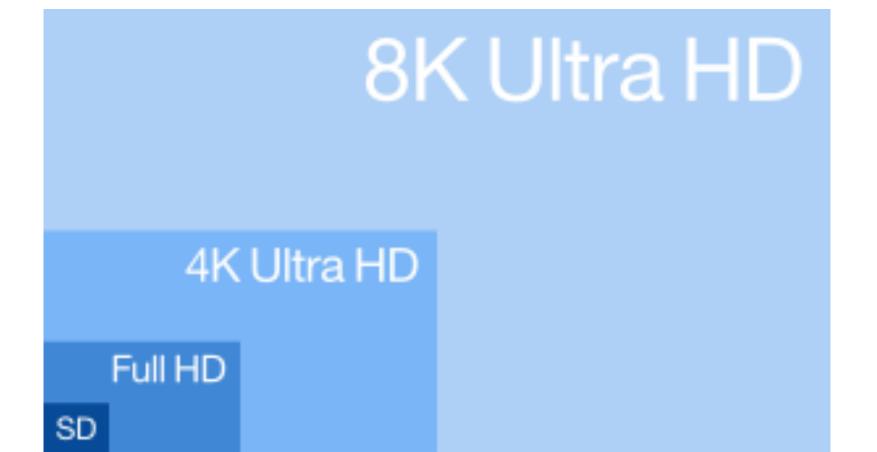


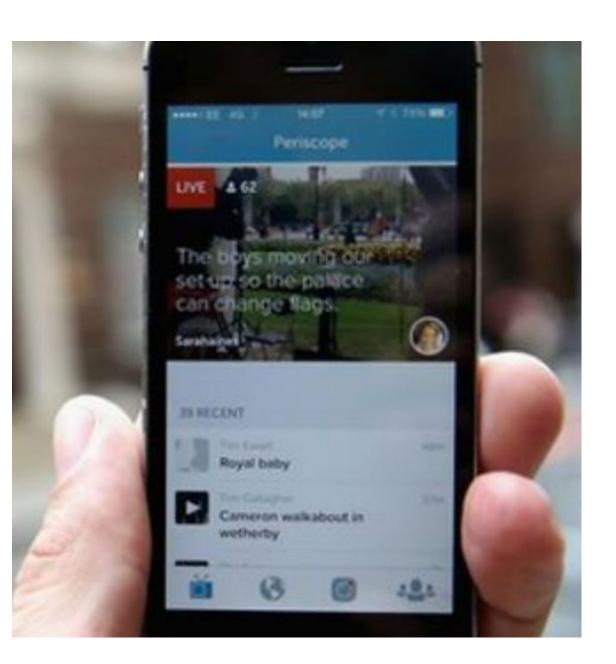
# BBC cymru wales

### team work area technical support APPARATUS TEAM SPACE ROOM TEAM OPERATIONAL TEAM SPACE EDIT SUITES SUPPORT ARE SPACE TEAM EDIT LIVE HUB TEAM SPACE SPACE SUITES EDIT SUITES TEAM SPACE LIVE HUB **RETAIL AND RECEPTION AND PUBLIC ACCESS** PUBLIC CAFE STORE





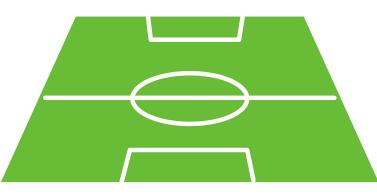






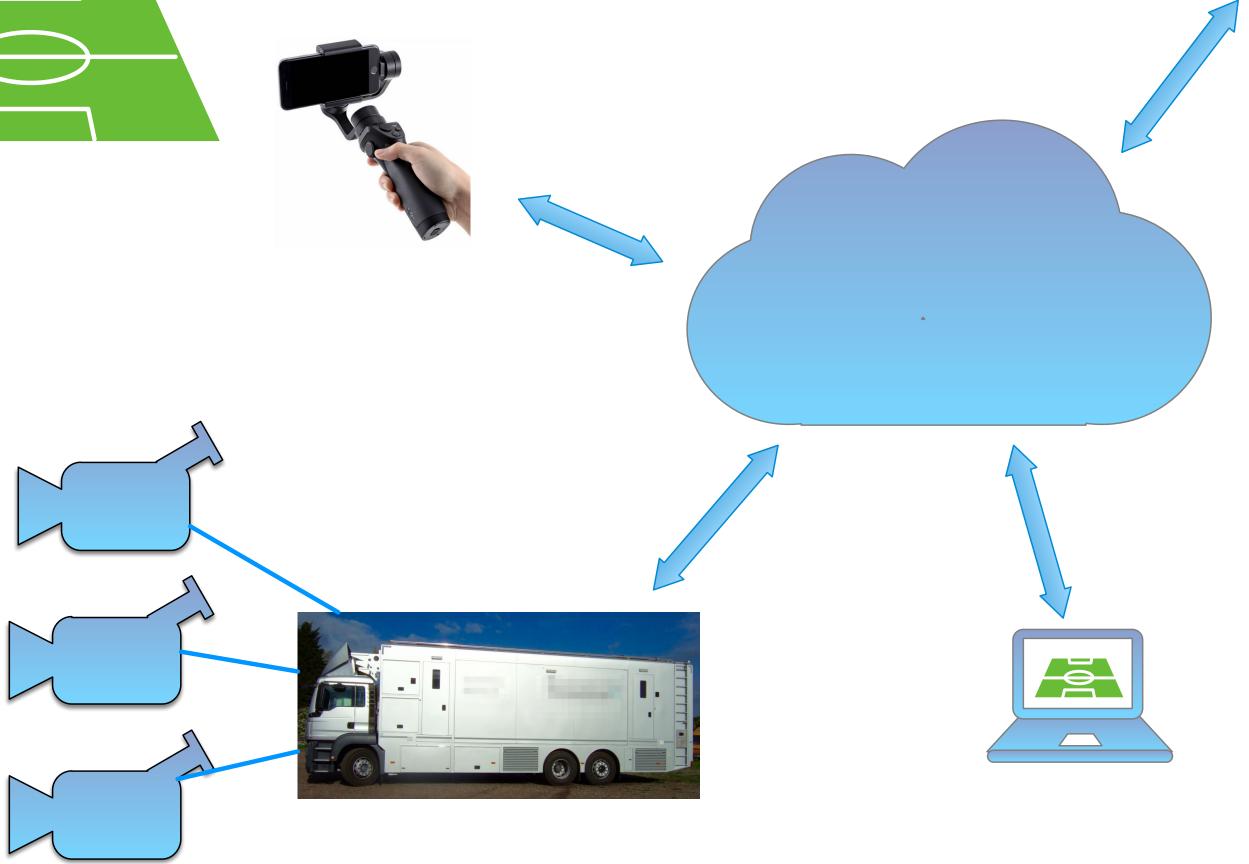
















# Some challenges for the industry

Extending beyond the facility Extending beyond uncompressed Extending beyond all-live Extending beyond "analogue" workflows Extending beyond "wire-orientated" standardisaton Extending beyond niche approaches

Doing all that in an interoperable way



# Transport

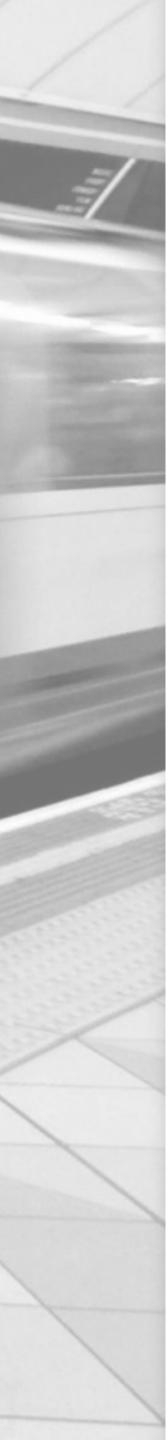
Low-latency uncompressed currently dominates within the facility. Often multicast.

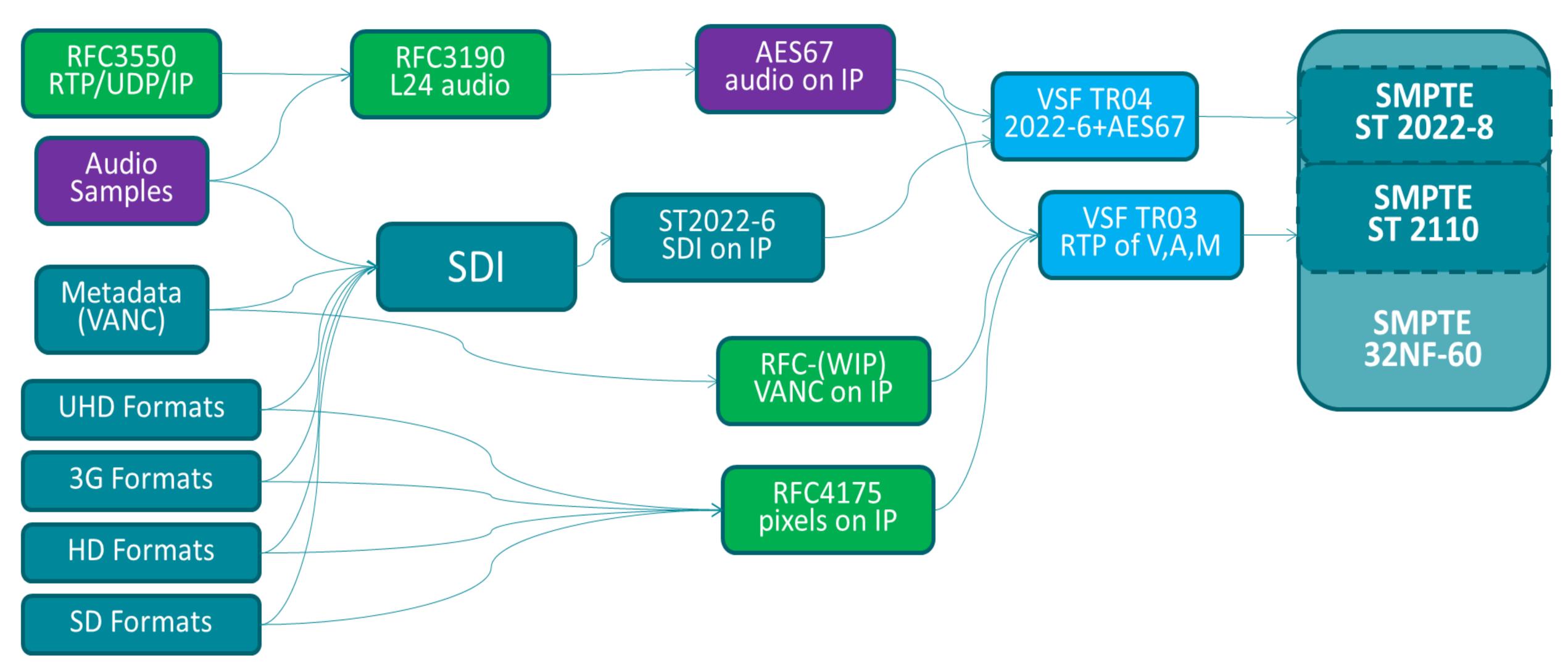
### Interest growing in:

- Mezzanine compression
- Resilient protocols
- Encryption













# **SMPTE ST 2110**

Professional Media over Managed IP Networks

- 2110-10: System timing and definitions
- 2110-20: Uncompressed active video
- 2110-21: Traffic shaping and delivery timing for video
- 2110-30: PCM audio
- 2110-31: AES-3 transparent transport
- 2110-40: Ancillary data







# Timing and synchronisation

Traditionally:

- Reference video (Black & Burst)
- 12M Timecodes

## PTP (IEEE 1588)

- AES-R16-2006
- SMPTE 2059-x

# No replacement for timecode (yet)

- AMWA Timing and Identity
- SMPTE Time Labels





AUDIO

ES



| 19 68.200.76   | 192 8.200.80  |  | 1 .168 0.7   | 192 58.210  | 1 1 .200.76   | 192.168.200.80  | 1000   | 192.168.210.76   | 192.168.210   |
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| 192.168.200.96   | 192.168.200.100   |  |  | 192.168.210   | 192.168.200.96  | 192.168.200.100   |  |  | 192.168.210   |
| 192.168.200.101  | 192.168.200.105   |  | 192.168.210.101  | 192.168.21(   | 192.168.200.101   | 192.168.200.105   | the second se  | 192.168.210.101  | 192.168.21(   |
| 192.168.200.106  | 192.168.200.110   |  | 192.168.210.106  | 192.168.210   | 192.168.200.106   | 192.168.200.110   |  | 192.168.210.106  | 192.168.210   |
| 192.168.200.111  | 192.168.200.115   | And a second sec | 192.168.210.111  | 192.168.210   | 192.168.200.111   | 192.168.200.115   | And a second sec | 192.168.210.111  | 192.168.210   |
| 192.168.200.116  | 192.168.200.120   | and the second se  | 192.168.210.116  | 192.168.210   | 192.168.200.116   | 192.168.200.120   | and the second second  | 192.168.210.116  | 192.168.210   |
| <del>192.168.200.121</del>   | <del>192.168.200.125</del>  |  | <del>192.168.210.121</del>   |   | <del>192.168.200.121</del>  | <del>192.168.200.125</del>  |  | <del>192.168.210.121</del>   |   |
|  |   | And a second sec | 192.168.210.126  |   |   |   | And a second sec | 192.168.210.126  |   |
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| 192.168.200.131  | 192.168.200.135   |  | 192.168.210.131  |   | 192.168.200.131   | 192.168.200.135   |  | 192.168.210.131  |   |
| 192.168.200.36   | 192.168.200.40  | 100  | 192.168.210.36   | 192 168 21020   | 192.168.200.36  | 192.168.200.40  | 100  |  | 192.168.210   |
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| <del>192.168.200.56</del>  | <del>192.168.200.60</del>   |  | <del>192.168.210.56</del>  | <del>192.168.21(</del>  | 192.108.200.56  | <del>192.168.200.60</del>   |  | <del>192.168.210.56</del>  | <del>192.168.21(</del>  |
| 1 <u>92.168</u> .200.61  | 192.168.200.65  |  | 192.168.210.61   | 192.168.21(   | 192.168.200.61  | 192.168.200.65  |  | 192.168.210.61   | 192.168.21(   |
| 1 2.168.202.55   | 192 168 206 78  | tial i   | 102.158.210.66   | 192.168.21(<br>192.68.11)<br>192.168.21(<br>192.168.21)   | 192.168,202.56  | 192.169-302-50  | -  | 192.168.210.66   | 192.168.210   |
| 1 2.168.200.1  | 92 168.200 75   |  | 192.16 .210.7  | 92.68.10  | 1.2,68,00.11  | 1 2.158.2 0.7   |  | 192.168.210.71   | 192.168.210   |
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| 192.168.200.81   |   |  | 192.168.210.81   | 192.168.21(   | 192.168.200.81  | 192.168.200.85  |  |  | 192.168.21(   |
|  | 192.168.200.85  |  |  |   |   |   |  |  |   |
| 192,168.200,86   | 192.168.200.90  | ach  | 192.168.210.86   | 192.168.210   | 192.168.200.86  | 192.168.200.90  |  |  | 192.168.21(   |
| 192.108.00.9   | 19.163.200.95   | ach  | 192.168.210.91   | 192.168.210   | 192.168.200.91  | 192.168.200.95  |  | 192.168.210.91   | 192.168.21(   |
| 1.2.1.3  | 2.2.163.200.200   |  | 192.168.210.96   | 192.168.210   | 192.168.200.96  | 192.168.200.100   |  | 192.168.210.96   | 192.168.21(   |
| 192.168. <mark>2</mark> 00.101   | 192.168.200.105   |  | 192.168.210.101  | 192.168.210   | 192.168.200.101   | 192.168.200.105   |  | 192.168.210.101  | 192.168.210   |
| 192.168.200.106  | 192.168.200.110   |  | 192.168.210.106  | 192.168.21(   | 192.168.200.106   | 192.168.200.110   |  | 192.168.210.106  | 192.168.210   |
| 192.168.200.111  | 192.168.200.115   |  | 192.168.210.111  | 192.168.210   | 192.168.200.111   | 192.168.200.115   |  | 192,168,210,111  | 192.168.210   |
| 192.168.200.116  | 192.168.200.120   |  | 192.168.210.116  |   | 192.168.200.116   | 192.168.200.120   |  | 192.168.210.116  |   |
| <del>192.168.200.121</del>   | <del>192.168.200.125</del>  |  | <del>192.168.210.110</del>   |   | <del>192.168.200.110</del>  | <del>192.168.200.125</del>  |  | <del>192.168.210.110</del>   |   |
|  |   |  |  |   |   |   |  |  |   |
| 192.168.200.126  | 192.168.200.130   |  | 192.168.210.126  |   | 192.168.200.126   | 192.168.200.130   |  | 192.168.210.126  |   |
| .12.168.100.131  | 192.58.200.135  |  | 192.168.210.131  |   | 192.168.200.131   | 192.168.200.135   |  | 192.163.210.131  | 192.168.210   |
| 19. 1 8.207.50   | 192.158 00.4  | IS DI  | 19 168 10 36   | 19 .168 11  | 19168. 07.36  | 16 200 0  | $\mathbf{N}$   | 192.163.21 .3  | 152.100.31000   |
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| 192.168.200.46   | 192.168.200.50  | and the second se  | 192.168.210.46   |   | 192.168.200.46  | 192 168 200 50  |  | 192.168.210.46   | 192.168.21(   |
| 192.168.200.51   |   |  |  |   |   | 102 200.50  |  |  | 192.168.210   |
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| 192.168.200.66   | 192.168.200.70  |  | 192.168.210.66   | 192.168.21(   | 192.168.200.66  | 192.168.200.70  |  | 192.168.210.66   | 192.168.21(   |
| 192.168.200.71   | 192.168.200.75  |  | 192.168.210.71   | 192.168.210   | 192.168.200.71  | 192.168.200.75  |  | 192.168.210.71   | 192.168.21(   |
| 192.168.200.76   | 197.168.200.80  |  | 192.168.210.76   | 192.168.210   | 192.168.200.76  | 192.168.200.80  |  | 192.168.210.76   | 192.168.21(   |
| 192.168.200.81   | 19 .163.200.85  |  | 192.168.210.81   | 192.168.21  | 192.168.200.81  | 192.168.200.85  |  | 192.168.210.81   | 192.168.21(   |
| 192.168.200.86   | 192.168.200.90  |  | 192.168.210.86   | 192.168.21(   | 192.168.200.86  | 192.168.200.90  |  | 192.168.210.86   | 192.168.21(   |
| 192.168.200.91   | 192.168.200.95  |  | 192.168.210.91   | 192.168.210   | 192.168.200.91  | 192.168.200.95  |  | 192.168.210.91   | 192.168.210   |
| 192.168.200.96   | 192.168.200.100   |  | 192.168.210.96   | 192.168.210   | 192.168.200.96  | 192.168.200.100   |  |  | 192.168.21(   |
| 192.168.200.101  | 192.168.200.105   |  | 192.168.210.101  |   | 192.168.200.101   | 192.168.200.105   |  | 192.168.210.101  |   |
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| 192.168.200.106  | 192.168.200.110   |  | 192.168.210.106  |   | 192.168.200.106   | 192.168.200.110   |  | 192.168.210.106  |   |
| 192.168.200.111  | 192.168.200.115   |  |  | 192.168.210   | 192.168.200.111   | 192.168.200.115   |  |  | 192.168.210   |
| 192.168.200.116  | 192.168.200.120   |  | 192.168.210.116  |   | 192.168.200.116   | 192.168.200.120   |  | 192.168.210.116  | 192.168.21(   |
| <del>197 £ 8.20</del> (1.21  | 1 <del>02. 68.</del> 700 <del>.1</del> 7  |  | <del>192</del> / <del>8.</del> 7 / <del>0.121</del>  | 19 <del>168.21(</del><br>92.165)1( <b>5</b> -   | 19 .16, 200. <sup>1</sup> /   | <del>192.168.200.125</del>  |  | <del>192.168.210.121</del>   | <del>192.168.21(</del>  |
| 1/1/16/200121  | 192.1 8 20 1 0  |  | 172.158.110.126  | 192.166.21(   | 1:12.168.20 /.12  | 192.168.200.130   |  | 192.168.210.126  | 192.168.210   |
| 192.168.200.131  | 192.168.200.135   |  | 192.108.210.101  | 192.100.210   | 192.108.200.131   | 192.168.200.135   |  | 192.168.210.131  | 192.168.210   |
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| 192.168.200.36   | 192.168.200.40  |  | 192.168.210.36   | 192.168.21000   | 192.168.200.36  | 192.168.200.40  |  |  | 192.168.210   |
| 192.168.200.41   | 192.168.200.45  |  | 192.168.210.41   | 192.168.210   | 192.168.200.41  | 192.168.200.45  |  | 192.168.210.41   | 192.168.210   |
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| 192.168.200.51   | 192.168.200.55  |  | 192.168.210.51<br><del>192.168.210.56</del>  | 192.168.21(   | 192.168.200.51  | 192.168.200.55  |  | 192.168.210.51<br><del>192.168.210.56</del>  |   |
| 192.168.200.51<br><del>192.168.200.56</del>  | 192.168.200.55<br><del>192.168.200.60</del>   | 100 C  | 192.168.210.51<br><del>192.168.210.56</del><br>192.168.210.61  | 192.168.210<br><del>192.168.210</del>   | 192.168.200.51<br><del>192.168.200.56</del>   | 192.168.200.55<br><del>192.168.200.60</del>   |  | 192.168.210.51<br><del>192.168.210.56</del><br>192.168.210.61  | <del>192.168.21(</del>  |
| 192.168.200.51<br><del>192.168.200.56</del><br>192.168.200.61  | 192.168.200.55192.168.200.60192.168.200.65  | 100  | 192.168.210.51<br><del>192.168.210.56</del><br>192.168.210.61<br>192.168.210.66  | 192.168.21(<br><del>192.168.21(</del><br>192.168.21(  | 192.168.200.51<br><del>192.168.200.56</del><br>192.168.200.61   | 192.168.200.55192.168.200.60192.168.200.65  | 14   | 192.168.210.51<br>192.168.210.56<br>192.168.210.61<br>192.168.210.66   | <del>192.168.21(</del><br>192.168.21(   |
| 192.168.200.51<br>192.168.200.56<br>192.168.200.61<br>192.168.200.66<br>192.168.200.71   | 192.168.200.55         192.168.200.60         192.168.200.65         192.168.200.70         192.168.200.75  | lan<br>Lan   | 192.168.210.51<br>192.168.210.56<br>192.168.210.66<br>192.168.210.66<br>192.168.210.71   | 192.168.210<br><del>192.168.210</del><br>192.168.210<br>192.168.210<br>192.168.210  | 192.168.200.51<br>192.168.200.56<br>192.168.200.61<br>192.168.200.66<br>192.168.200.71  | 192.168.200.55         192.168.200.60         192.168.200.65         192.168.200.70         192.168.200.75  |  | 192.168.210.51<br><del>192.168.210.56</del><br>192.168.210.61<br>192.168.210.66<br>192.168.210.71  | <del>192.168.21(</del><br>192.168.21(<br>192.168.21(<br>192.168.21(   |
| 192.168.200.51<br>192.168.200.56<br>192.168.200.61<br>192.168.200.66<br>192.168.200.71<br>192.168.200.76   | 192.168.200.55         192.168.200.60         192.168.200.65         192.168.200.70         192.168.200.75         192.168.200.80   |  | 192.168.210.51<br>192.168.210.61<br>192.168.210.61<br>192.168.210.71<br>192.168.210.71   | 192.168.21(<br><del>192.168.21(</del><br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(   | 192.168.200.51         192.168.200.61         192.168.200.61         192.168.200.71         192.168.200.71         192.168.200.76   | 192.168.200.55192.168.200.60192.168.200.70192.168.200.70192.168.200.75192.168.200.80  |  | 192.168.210.51<br>192.168.210.56<br>192.168.210.61<br>192.168.210.66<br>192.168.210.71<br>192.168.210.76   | 192.168.21(         192.168.21(         192.168.21(         192.168.21(         192.168.21(   |
| 192.168.200.51         192.168.200.56         192.168.200.61         192.168.200.66         192.168.200.71         192.168.200.76         192.168.200.81   | 192.168.200.55         192.168.200.60         192.168.200.65         192.168.200.70         192.168.200.75         192.168.200.80         192.168.200.80  |  | 192.168.210.51<br>192.168.210.61<br>192.168.210.66<br>192.168.210.71<br>192.168.210.76<br>192.168.210.76   | 192.168.210<br><del>192.168.210</del><br>192.168.210<br>192.168.210<br>192.168.210<br>192.168.210<br>192.168.210  | 192.168.200.51<br><del>192.168.200.61</del><br>192.168.200.66<br>192.168.200.71<br>192.168.200.76<br>192.168.200.81   | 192.168.200.55         192.168.200.60         192.168.200.70         192.168.200.75         192.168.200.80         192.168.200.85   |  | 192.168.210.51<br>192.168.210.56<br>192.168.210.61<br>192.168.210.66<br>192.168.210.71<br>192.168.210.76<br>192.168.210.81   | 192.168.21(         192.168.21(         192.168.21(         192.168.21(         192.168.21(         192.168.21(         192.168.21(   |
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| 192.168.200.51         192.168.200.56         192.168.200.61         192.168.200.66         192.168.200.71         192.168.200.76         192.168.200.81         192.168.200.86         192.168.200.91         192.168.200.96         192.168.200.91         192.168.200.91                          | 192.168.200.55         192.168.200.60         192.168.200.70         192.168.200.70         192.168.200.75         192.168.200.85         192.168.200.85         192.168.200.90         192.168.200.90         192.168.200.95         192.168.200.100         192.168.200.100                         |  | 192.168.210.51<br><del>192.168.210.6</del><br>192.168.210.66<br>192.168.210.71<br>192.168.210.76<br>192.168.210.81<br>192.168.210.86<br>192.168.210.96<br>192.168.210.96<br>192.168.210.96           | 192.168.210<br>192.168.210<br>192.168.210<br>192.168.210<br>192.168.210<br>192.168.210<br>192.168.210<br>192.168.210<br>192.168.210<br>192.168.210<br>192.168.210   | 192.168.200.51<br><del>192.168.200.56</del><br>192.168.200.66<br>192.168.200.71<br>192.168.200.76<br>192.168.200.81<br>192.168.200.86<br>192.168.200.91<br>192.168.200.96<br>192.168.200.101                    | 192.168.200.55         192.168.200.60         192.168.200.70         192.168.200.70         192.168.200.75         192.168.200.85         192.168.200.85         192.168.200.90         192.168.200.90         192.168.200.95         192.168.200.100         192.168.200.105   |  | 192.168.210.51         192.168.210.56         192.168.210.66         192.168.210.71         192.168.210.76         192.168.210.76         192.168.210.81         192.168.210.81         192.168.210.91         192.168.210.96         192.168.210.96         192.168.210.96         192.168.210.91   | 192.168.21(         192.168.21(         192.168.21(         192.168.21(         192.168.21(         192.168.21(         192.168.21(         192.168.21(         192.168.21(         192.168.21(         192.168.21(         192.168.21(         192.168.21(         192.168.21(         192.168.21(                     |
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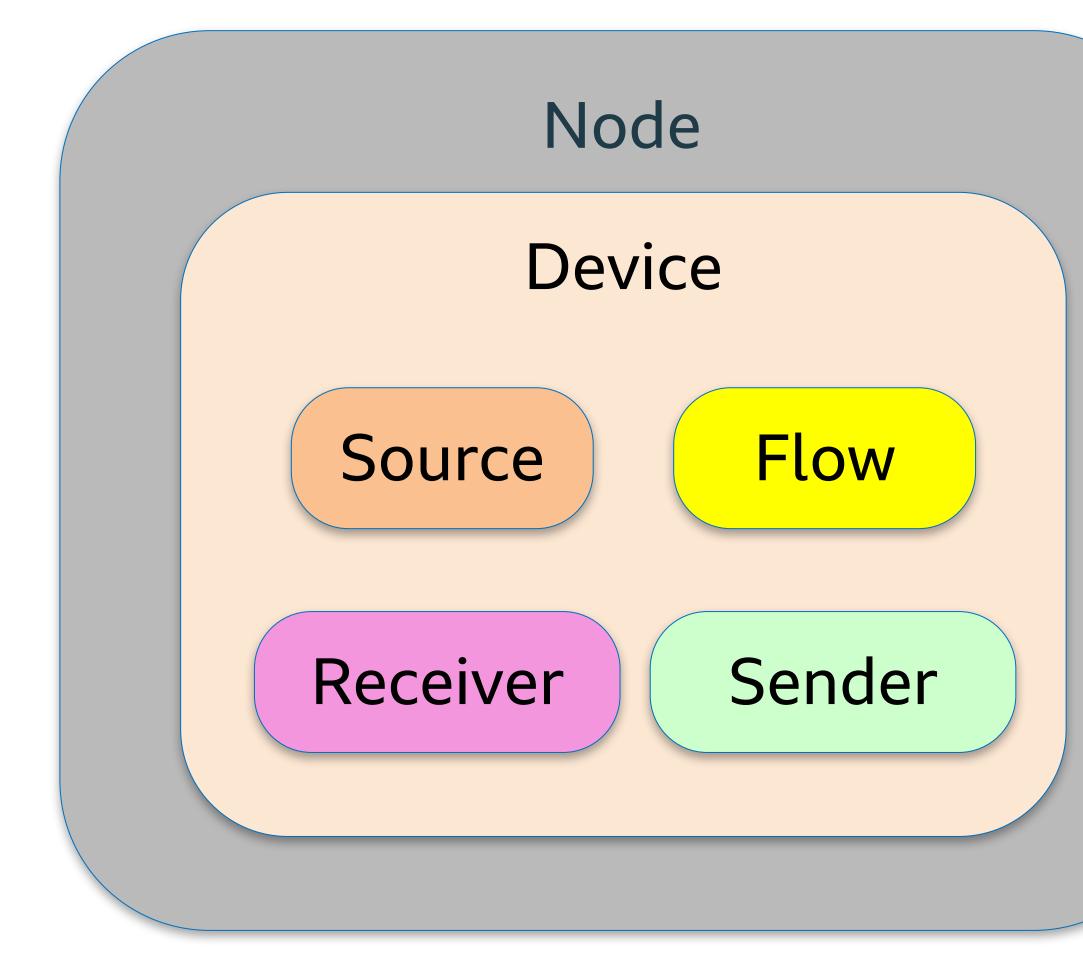
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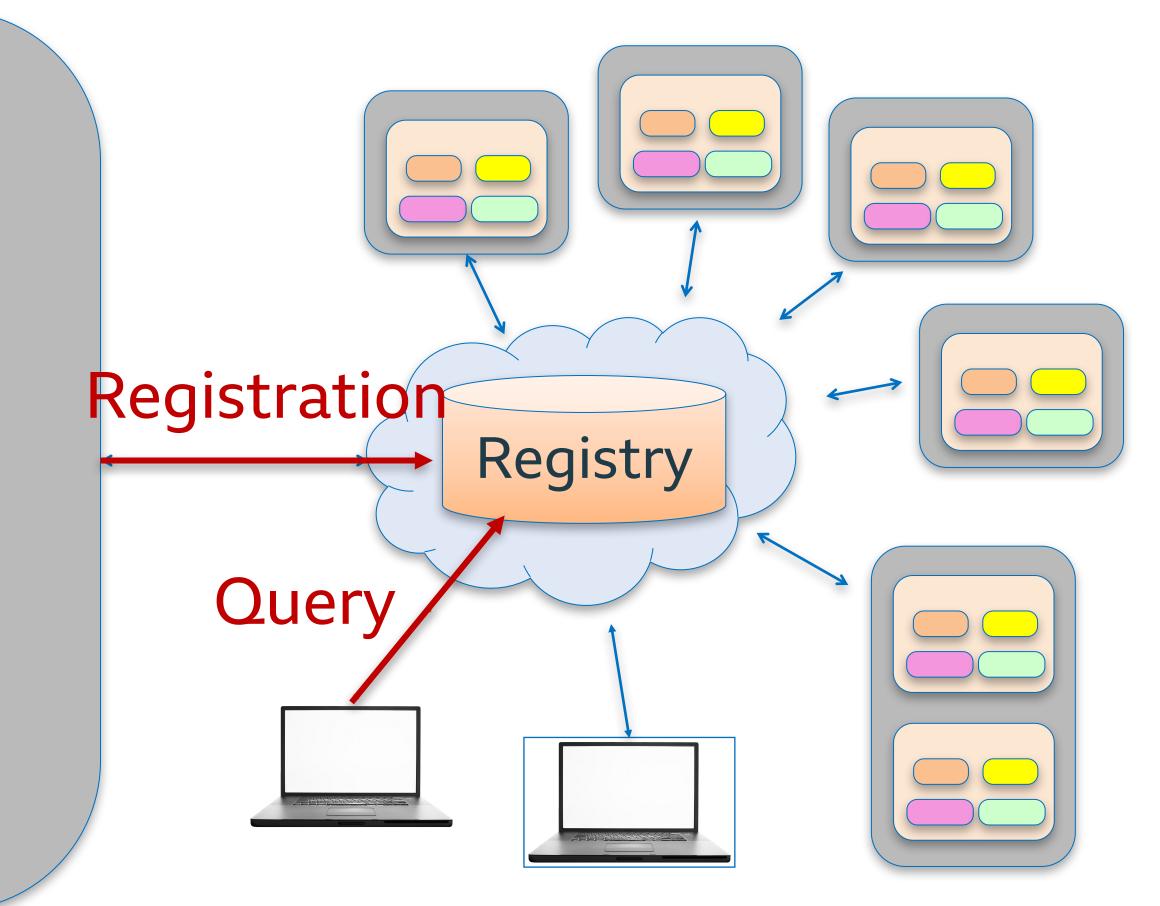
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|---|--|---|---|--|--|---|--|---|---|--|
| 192.168.200.45  | inter a  | 192.168.210.41 192.168.210  | 192.168.200.41  | 192.168.200.45   | inter a  | 192.168.210.41  |  | 192.168.200.41  | 192.168.200.45  | in the second se |
| 192.168.200.50  | lines.   | 192.168.210.46 192.168.210  | 192.168.200.46  | 192.168.200.50   | in the second se |   | 192.168.210  | 192.168.200.46  | 192.168.200.50  | the second se  |
| 192.168.200.55  | 100  | 192.168.210.51 192.168.210  | 192.168.200.51  | 192.168.200.55   | ALC: NOT   | 192.168.210.51  |  | 192.168.200.51  | 192.168.200.55  | 100  |
| <del>192.168.200.60</del>   |  | <del>192.168.210.56</del> <del>192.168.21(</del>  | <del>192.168.200.56</del>   | <del>192.168.200.60</del>  |  |   | <del>192.168.21(</del>   | <del>192.168.200.56</del>   | <del>192.168.200.60</del>   | _  |
| 192.168.200.65  | in the second  | 192.168.210.61 192.168.210  | 192.168.200.61  | 192.168.200.65   | in the second  | 192.168.210.61  | 192.168.210  | 192.168.200.61  | 192.168.200.65  | in the second se |
| 192.168.200.70  | Test.  | 192.168.210.66 192.168.210  | 192.168.200.66  | 192.168.200.70   | Lat.   | 192.168.210.66  | 192.168.210  | 192.168.200.66  | 192.168.200.70  | last.  |
| 192.168.200.75  | in second second   | 192.168.210.71 192.168.210  | 192.168.200.71  | 192.168.200.75   | And a second sec | 192.168.210.71  | 192.168.210  | 192.168.200.71  | 192.168.200.75  | transmitting (   |
| 192.168.200.80  | 1000   | 192.168.210.76 192.168.210  | 192.168.200.76  | 192.168.200.80   | 1000   | 192.168.210.76  | 192.168.210  | 192.168.200.76  | 192.168.200.80  | 1000   |
| 192.168.200.85  | in the second se | 192.168.210.81 192.168.210  | 192.168.200.81  | 192.168.200.85   | Sector 1   | 192.168.210.81  | 192.168.210  | 192.168.200.81  | 192.168.200.85  | inches 1   |
| 192.168.200.90  | No.  | 192.168.210.86 192.168.210  | 192.168.200.86  | 192.168.200.90   | 1000   | 192.168.210.86  | 192.168.210  | 192.168.200.86  | 192.168.200.90  | The second se  |
| 192.168.200.95  | April 1  | 192.168.210.91 192.168.210  | 192.168.200.91  | 192.168.200.95   | April 1  | 192.168.210.91  |  | 192.168.200.91  | 192.168.200.95  | And a second sec |
| 192.168.200.100   | 100  | 192.168.210.96 192.168.210  | 192.168.200.96  | 192.168.200.100  | 100  | 192.168.210.96  |  | 192.168.200.96  | 192.168.200.100   | 100  |
| 192.168.200.105   | Sec.   | 192.168.210.101 192.168.210   | 192.168.200.101   | 192.168.200.105  | Sec.   | 192.168.210.101   |  | 192.168.200.101   | 192.168.200.105   | lane.  |
| 192.168.200.110   | And a second sec | 192.168.210.106 192.168.210   | 192.168.200.106   | 192.168.200.110  | And a second sec | 192.168.210.106   |  | 192.168.200.106   | 192.168.200.110   | And a second second  |
| 192.168.200.115   | the second se  | 192.168.210.111 192.168.210   | 192.168.200.111   | 192.168.200.115  | the second se  | 192.168.210.111   |  | 192.168.200.111   | 192.168.200.115   | in the second se |
| 192.168.200.120   | 100  | 192.168.210.116 192.168.210   | 192.168.200.116   | 192.168.200.120  | 100  | 192.168.210.116   |  | 192.168.200.116   | 192.168.200.120   | 100  |
| <del>192.168.200.125</del>  |  | <del>192.168.210.121</del> <del>192.168.21(</del>   | <del>192.168.200.121</del>  | <del>192.168.200.125</del>   |  | <del>192.168.210.121</del>  |  | <del>192.168.200.121</del>  | <del>192.168.200.125</del>  | _  |
| 192.168.200.130   | And and the local diversity of the local dive | 192.168.210.126 192.168.210   | 192.168.200.126   | 192.168.200.130  | ALC: NOT THE OWNER.  | 192.168.210.126   |  | 192.168.200.126   | 192.168.200.130   | And a second sec |
| 192.168.200.135   | Sec. 1   | 192.168.210.131 192.168.210   | 192.168.200.131   | 192.168.200.135  | Sec. 1   |   | 192.168.210  | 192.168.200.131   | 192.168.200.135   | interes and  |
| 100 100 000 140   | and the second s |   | 100 100 000 100   | 100 100 000 140  | -  |   |  | 100 100 000 100   | 100 100 000 140   | -  |
| 192.168.200.40  | - Contract  | 192.168.210.36 192.168.210  | 192.168.200.36  | 192.168.200.40   | - Colored - Colo | 192.168.210.36  | 192.168.21000  | 192.168.200.36  | 192.168.200.40  | - Colores - Colo |
| 192.168.200.45  | 1000   | 192.168.210.41 192.168.21   | 192.168.200.41  | 192.168.200.45   | 1000   | 192.168.210.41  |  | 192.168.200.41  | 192.168.200.45  | 1000   |
| 192.168.200.50  | and the second s | 192.168.210.46 192.168.21(  | 192.168.200.46  | 192.168.200.50   | and the second s | 192.168.210.46  |  | 192.168.200.46  | 192.168.200.50  | Contract of Contra |
| 192.168.200.55  | 100  | 192.168.210.51 192.168.21(  | 192.168.200.51  | 192.168.200.55   | 100  | 192.168.210.51  |  | 192.168.200.51  | 192.168.200.55  |  |
| <del>192.168.200.60</del>   |  | <del>192.168.210.56</del> <del>192.168.21(</del>  | <del>192.168.200.56</del>   | <del>192.168.200.60</del>  |  |   | <del>192.168.21(</del>   | <del>192.168.200.56</del>   | <del>192.168.200.60</del>   | -  |
| 192.168.200.65  | 1000   | 192.168.210.61 192.168.210  | 192.168.200.61  | 192.168.200.65   | 100  | 192.168.210.61  |  | 192.168.200.61  | 192.168.200.65  | 100  |
| 192.168.200.70  | Contraction of the local distance of the loc | 192.168.210.66 192.168.210  | 192.168.200.66  | 192.168.200.70   | 100  | 192.168.210.66  |  | 192.168.200.66  | 192.168.200.70  | land.  |
| 192.168.200.75  | -  | 192.168.210.71 192.168.21(  | 192.168.200.71  | 192.168.200.75   |  | 192.168.210.71  |  | 192.168.200.71  | 192.168.200.75  |  |
| 192.168.200.80  | 1000   | 192.168.210.76 192.168.210  | 192.168.200.76  | 192.168.200.80   | 1000   | 192.168.210.76  |  | 192.168.200.76  | 192.168.200.80  | 100  |
| 192.168.200.85  | the second se  | 192.168.210.81 192.168.210  | 192.168.200.81  | 192.168.200.85   | and the second s | 192.168.210.81  |  | 192.168.200.81  | 192.168.200.85  | in the second se |
| 192.168.200.90  | 200 B  | 192.168.210.86 192.168.21(  | 192.168.200.86  | 192.168.200.90   | - 10 March 10  | 192.168.210.86  |  | 192.168.200.86  | 192.168.200.90  | Sec.   |
| 192.168.200.95  | 1000   | 192.168.210.91 192.168.210  | 192.168.200.91  | 192.168.200.95   |  |   | 192.168.210  | 192.168.200.91  | 192.168.200.95  |  |
| 192.168.200.100   |  | 192.168.210.96 192.168.210  | 192.168.200.96  | 192.168.200.100  |  | 192.168.210.96  | 192.168.210  | 192.168.200.96  | 192.168.200.100   |  |
| 192.168.200.105   | - 100 C  | 192.168.210.101 192.168.21(   | 192.168.200.101   | 192.168.200.105  | and the second second  |   | 192.168.210  | 192.168.200.101   | 192.168.200.105   | - 10 M   |
| 192.168.200.110   |  | 192.168.210.106 192.168.210   | 192.168.200.106   | 192.168.200.110  | - Contract   | 192.168.210.106   |  | 192.168.200.106   | 192.168.200.110   |  |
| 192.168.200.115   | 100  | 192.168.210.111 192.168.210   | 192.168.200.111   | 192.168.200.115  | 100 C  | 192.168.210.111   | 192.168.210  | 192.168.200.111   | 192.168.200.115   | 100 million (1990)   |
| 192.168.200.120   | and the second s | 192.168.210.116 192.168.210   | 192.168.200.116   | 192.168.200.120  | 100 C  | 192.168.210.116   |  | 192.168.200.116   | 192.168.200.120   | 100  |
| <del>192.168.200.125</del>  |  | <del>192.168.210.121</del> <del>192.168.21(</del>   | <del>192.168.200.121</del>  | <del>192.168.200.125</del>   |  | <del>192.168.210.121</del>  | <del>192.168.21(</del>   | <del>192.168.200.121</del>  | <del>192.168.200.125</del>  |  |
| 192.168.200.130   |  | 192.168.210.126 192.168.21(   | 192.168.200.126   | 192.168.200.130  |  | 192.168.210.126   |  | 192.168.200.126   | 192.168.200.130   |  |
| 192.168.200.135   | 1000   | 192.168.210.131 192.168.210   | 192.168.200.131   | 192.168.200.135  |  |   | 192.168.210  | 192.168.200.131   | 192.168.200.135   |  |
| 192.168.200.40  | -  | 192.168.210.36 192.168.210  | 192.168.200.36  | 192.168.200.40   |  | 192.168.210.36  | 192.168.210  | 192.168.200.36  | 192.168.200.40  | -  |
| 192.168.200.45  | the second se  | 192.168.210.41 192.168.210  | 192.168.200.41  | 192.168.200.45   | and the second s | 192.168.210.41  |  | 192.168.200.41  | 192.168.200.45  | in the second se |
| 192.168.200.50  | Sec. 1   | 192.168.210.46 192.168.210  | 192.168.200.46  | 192.168.200.50   | in the second se | 192.168.210.46  |  | 192.168.200.46  | 192.168.200.50  | in the second se |
| 192.168.200.55  | ALC: NOT   | 192.168.210.51 192.168.210  | 192.168.200.51  | 192.168.200.55   | ALC: NOT   | 192.168.210.51  |  | 192.168.200.51  | 192.168.200.55  | ALC: NOT   |
| <del>192.168.200.60</del>   |  | <del>192.168.210.56</del> <del>192.168.21(</del>  | <del>192.168.200.56</del>   | <del>192.168.200.60</del>  |  | <del>192.168.210.56</del>   |  | <del>192.168.200.56</del>   | <del>192.168.200.60</del>   |  |
| 192.168.200.65  | in the second se | 192.168.210.61 192.168.210  | 192.168.200.61  | 192.168.200.65   | 1000   |   | 192.168.210  | 192.168.200.61  | 192.168.200.65  | 1000   |
| 192.168.200.70  | Test.  | 192.168.210.66 192.168.210  | 192.168.200.66  | 192.168.200.70   | Test.  | 192.168.210.66  |  | 192.168.200.66  | 192.168.200.70  | Trail.   |
| 192.168.200.75  | interesting (  | 192.168.210.71 192.168.210  | 192.168.200.71  | 192.168.200.75   | And a second sec | 192.168.210.71  | 192.168.210  | 192.168.200.71  | 192.168.200.75  | increases.   |
| 192.168.200.80  | 1000   | 192.168.210.76 192.168.210  | 192.168.200.76  | 192.168.200.80   | 1000   | 192.168.210.76  | 192.168.210  | 192.168.200.76  | 192.168.200.80  | 1000   |
| 192.168.200.85  | in the second se | 192.168.210.81 192.168.210  | 192.168.200.81  | 192.168.200.85   | Sector 1   | 192.168.210.81  | 192.168.210  | 192.168.200.81  | 192.168.200.85  | inches 1   |
| 192.168.200.90  | The second se  | 192.168.210.86 192.168.210  | 192.168.200.86  | 192.168.200.90   | 1000   | 102 100 210 00  | 102 169 210  | 192.168.200.86  | 192.168.200.90  | 1000   |
| 192.168.200.95  | And a second sec | 192.168.210.91 192.168.210  | 192.168.200.91  |  |  | 192.168.210.86  | 192.108.210  | 192.100.200.00  |   |  |
| 192.168.200.100   | 100  |   | 152.100.200.51  | 192.168.200.95   | And Contemport   | 192.168.210.86  |  | 192.168.200.91  | 192.168.200.95  |  |
| 192.168.200.105   | in the second se | 192.168.210.96 192.168.210  | 192.168.200.96  | 192.168.200.95<br>192.168.200.100  |  |   | 192.168.210  |   |   | 100  |
| 192.168.200.110   |  | 192.168.210.96192.168.210192.168.210.101192.168.210   |   |  | 100  | 192.168.210.91  | 192.168.210<br>192.168.210   | 192.168.200.91  | 192.168.200.95  |  |
|   |  |   | 192.168.200.96  | 192.168.200.100  | 100  | 192.168.210.91<br>192.168.210.96  | 192.168.210<br>192.168.210<br>192.168.210  | 192.168.200.91<br>192.168.200.96  | 192.168.200.95<br>192.168.200.100   | 10 A   |
| 192.168.200.115   | And a second sec | 192.168.210.101 192.168.210   | 192.168.200.96<br>192.168.200.101   | 192.168.200.100<br>192.168.200.105   | 100  | 192.168.210.91<br>192.168.210.96<br>192.168.210.101   | 192.168.210<br>192.168.210<br>192.168.210<br>192.168.210   | 192.168.200.91<br>192.168.200.96<br>192.168.200.101   | 192.168.200.95<br>192.168.200.100<br>192.168.200.105  | 10 A   |
| 192.168.200.115<br>192.168.200.120  | 100  | 192.168.210.101192.168.210192.168.210.106192.168.210  | 192.168.200.96           192.168.200.101           192.168.200.106  | 192.168.200.100<br>192.168.200.105<br>192.168.200.110  |  | 192.168.210.91           192.168.210.96           192.168.210.101           192.168.210.106   | 192.168.210<br>192.168.210<br>192.168.210<br>192.168.210<br>192.168.210  | 192.168.200.91<br>192.168.200.96<br>192.168.200.101<br>192.168.200.106  | 192.168.200.95192.168.200.100192.168.200.105192.168.200.110   | ñ.,  |
|   |  | 192.168.210.101192.168.210192.168.210.106192.168.210192.168.210.111192.168.210  | 192.168.200.96           192.168.200.101           192.168.200.106           192.168.200.111  | 192.168.200.100<br>192.168.200.105<br>192.168.200.110<br>192.168.200.115   |  | 192.168.210.91           192.168.210.96           192.168.210.101           192.168.210.106           192.168.210.111   | 192.168.210<br>192.168.210<br>192.168.210<br>192.168.210<br>192.168.210<br>192.168.210   | 192.168.200.91<br>192.168.200.96<br>192.168.200.101<br>192.168.200.106<br>192.168.200.111   | 192.168.200.95192.168.200.100192.168.200.105192.168.200.110192.168.200.115  | 1  |
| 192.168.200.120   |  | 192.168.210.101192.168.210192.168.210.106192.168.210192.168.210.111192.168.210192.168.210.116192.168.210  | 192.168.200.96           192.168.200.101           192.168.200.106           192.168.200.111           192.168.200.111           192.168.200.116  | 192.168.200.100<br>192.168.200.105<br>192.168.200.110<br>192.168.200.115<br>192.168.200.120  |  | 192.168.210.91         192.168.210.96         192.168.210.101         192.168.210.106         192.168.210.111         192.168.210.116   | 192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(  | 192.168.200.91<br>192.168.200.96<br>192.168.200.101<br>192.168.200.106<br>192.168.200.111<br>192.168.200.116  | 192.168.200.95192.168.200.100192.168.200.105192.168.200.110192.168.200.115192.168.200.120   | 1  |
| 192.168.200.120<br><del>192.168.200.125</del>   | 1  | 192.168.210.101       192.168.210         192.168.210.106       192.168.210         192.168.210.111       192.168.210         192.168.210.116       192.168.210         192.168.210.116       192.168.210         192.168.210.116       192.168.210   | 192.168.200.96         192.168.200.101         192.168.200.106         192.168.200.111         192.168.200.116         192.168.200.121  | 192.168.200.100         192.168.200.105         192.168.200.110         192.168.200.115         192.168.200.120         192.168.200.120  |  | 192.168.210.91         192.168.210.96         192.168.210.101         192.168.210.106         192.168.210.111         192.168.210.116         192.168.210.116         192.168.210.121   | 192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(  | 192.168.200.91         192.168.200.96         192.168.200.101         192.168.200.106         192.168.200.111         192.168.200.116         192.168.200.121   | 192.168.200.95         192.168.200.100         192.168.200.105         192.168.200.110         192.168.200.115         192.168.200.120         192.168.200.120  | aller H  |
| 192.168.200.120         192.168.200.125         192.168.200.130         192.168.200.135         192.168.200.135   | 1  | 192.168.210.101       192.168.210         192.168.210.106       192.168.210         192.168.210.111       192.168.210         192.168.210.116       192.168.210         192.168.210.116       192.168.210         192.168.210.121       192.168.210         192.168.210.126       192.168.210         192.168.210.126       192.168.210         192.168.210.126       192.168.210         192.168.210.126       192.168.210   | 192.168.200.96         192.168.200.101         192.168.200.106         192.168.200.111         192.168.200.116         192.168.200.126         192.168.200.126         192.168.200.126         192.168.200.131  | 192.168.200.100         192.168.200.105         192.168.200.110         192.168.200.115         192.168.200.120         192.168.200.120         192.168.200.130         192.168.200.135         192.168.200.135  |  | 192.168.210.91         192.168.210.96         192.168.210.101         192.168.210.106         192.168.210.111         192.168.210.116         192.168.210.121         192.168.210.126         192.168.210.126         192.168.210.131   | 192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.1   | 192.168.200.91         192.168.200.96         192.168.200.101         192.168.200.106         192.168.200.111         192.168.200.116         192.168.200.121         192.168.200.126         192.168.200.131   | 192.168.200.95         192.168.200.100         192.168.200.105         192.168.200.110         192.168.200.115         192.168.200.120         192.168.200.120         192.168.200.130         192.168.200.135         192.168.200.135  | alla li  |
| 192.168.200.120         192.168.200.125         192.168.200.130         192.168.200.135         192.168.200.40  | 111  | 192.168.210.101       192.168.210         192.168.210.106       192.168.210         192.168.210.111       192.168.210         192.168.210.116       192.168.210         192.168.210.116       192.168.210         192.168.210.116       192.168.210         192.168.210.121       192.168.210         192.168.210.126       192.168.210         192.168.210.131       192.168.210         192.168.210.36       192.168.210  | 192.168.200.96         192.168.200.101         192.168.200.106         192.168.200.111         192.168.200.116         192.168.200.121         192.168.200.126         192.168.200.131         192.168.200.131         192.168.200.36   | 192.168.200.100         192.168.200.105         192.168.200.110         192.168.200.115         192.168.200.120         192.168.200.120         192.168.200.130         192.168.200.130         192.168.200.135         192.168.200.400  |  | 192.168.210.91         192.168.210.96         192.168.210.101         192.168.210.106         192.168.210.111         192.168.210.116         192.168.210.126         192.168.210.126         192.168.210.126         192.168.210.126         192.168.210.126         192.168.210.131         192.168.210.36  | 192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.168.21(<br>192.1   | 192.168.200.91<br>192.168.200.96<br>192.168.200.101<br>192.168.200.106<br>192.168.200.111<br>192.168.200.116<br><del>192.168.200.121</del><br>192.168.200.126<br>192.168.200.131<br>192.168.200.36  | 192.168.200.95         192.168.200.100         192.168.200.105         192.168.200.110         192.168.200.110         192.168.200.110         192.168.200.120         192.168.200.130         192.168.200.130         192.168.200.135         192.168.200.135         192.168.200.400  | alla bis   |
| 192.168.200.120         192.168.200.125         192.168.200.130         192.168.200.135         192.168.200.40         192.168.200.45   | 111.1  | 192.168.210.101       192.168.210         192.168.210.106       192.168.210         192.168.210.111       192.168.210         192.168.210.116       192.168.210         192.168.210.116       192.168.210         192.168.210.116       192.168.210         192.168.210.126       192.168.210         192.168.210.126       192.168.210         192.168.210.131       192.168.210         192.168.210.36       192.168.210         192.168.210.36       192.168.210   | 192.168.200.96         192.168.200.101         192.168.200.106         192.168.200.111         192.168.200.116         192.168.200.121         192.168.200.126         192.168.200.131         192.168.200.36         192.168.200.36  | 192.168.200.100         192.168.200.105         192.168.200.110         192.168.200.120         192.168.200.120         192.168.200.130         192.168.200.130         192.168.200.130         192.168.200.400         192.168.200.40         192.168.200.45  | lilli lili   | 192.168.210.91         192.168.210.96         192.168.210.101         192.168.210.106         192.168.210.106         192.168.210.111         192.168.210.116         192.168.210.121         192.168.210.126         192.168.210.131         192.168.210.36         192.168.210.36   | 192.168.21(       192.168.21(       192.168.21(       192.168.21(       192.168.21(       192.168.21(       192.168.21(       192.168.21(       192.168.21(       192.168.21(       192.168.21(       192.168.21(       192.168.21(  | 192.168.200.91<br>192.168.200.96<br>192.168.200.101<br>192.168.200.106<br>192.168.200.111<br>192.168.200.116<br><del>192.168.200.121</del><br>192.168.200.126<br>192.168.200.36<br>192.168.200.36   | 192.168.200.95         192.168.200.100         192.168.200.105         192.168.200.110         192.168.200.120         192.168.200.120         192.168.200.120         192.168.200.120         192.168.200.120         192.168.200.120         192.168.200.120         192.168.200.120         192.168.200.130         192.168.200.400         192.168.200.400  | alla li  |
| 192.168.200.120         192.168.200.125         192.168.200.130         192.168.200.135         192.168.200.40         192.168.200.45         192.168.200.45  | 111  | 192.168.210.101       192.168.210         192.168.210.106       192.168.210         192.168.210.111       192.168.210         192.168.210.116       192.168.210         192.168.210.116       192.168.210         192.168.210.116       192.168.210         192.168.210.126       192.168.210         192.168.210.126       192.168.210         192.168.210.131       192.168.210         192.168.210.36       192.168.210         192.168.210.36       192.168.210         192.168.210.41       192.168.210         192.168.210.44       192.168.210   | 192.168.200.96         192.168.200.101         192.168.200.106         192.168.200.111         192.168.200.116         192.168.200.126         192.168.200.126         192.168.200.131         192.168.200.36         192.168.200.41         192.168.200.41   | 192.168.200.100         192.168.200.105         192.168.200.110         192.168.200.115         192.168.200.120         192.168.200.120         192.168.200.130         192.168.200.135         192.168.200.40         192.168.200.40         192.168.200.40         192.168.200.45         192.168.200.50   |  | 192.168.210.91         192.168.210.96         192.168.210.101         192.168.210.106         192.168.210.116         192.168.210.116         192.168.210.121         192.168.210.126         192.168.210.131         192.168.210.36         192.168.210.41         192.168.210.41  | 192.168.21(       192.168.21(       192.168.21(       192.168.21(       192.168.21(       192.168.21(       192.168.21(       192.168.21(       192.168.21(       192.168.21(       192.168.21(       192.168.21(       192.168.21(       192.168.21(       192.168.21(       192.168.21(       192.168.21(  | 192.168.200.91         192.168.200.96         192.168.200.101         192.168.200.106         192.168.200.111         192.168.200.116         192.168.200.121         192.168.200.126         192.168.200.131         192.168.200.36         192.168.200.41         192.168.200.41  | 192.168.200.95         192.168.200.100         192.168.200.105         192.168.200.110         192.168.200.110         192.168.200.120         192.168.200.120         192.168.200.120         192.168.200.120         192.168.200.120         192.168.200.120         192.168.200.120         192.168.200.120         192.168.200.130         192.168.200.40         192.168.200.45         192.168.200.50   | alla bis   |
| 192.168.200.120         192.168.200.125         192.168.200.135         192.168.200.135         192.168.200.400         192.168.200.45         192.168.200.550         192.168.200.555  | 111.1  | 192.168.210.101       192.168.210         192.168.210.106       192.168.210         192.168.210.111       192.168.210         192.168.210.116       192.168.210         192.168.210.116       192.168.210         192.168.210.121       192.168.210         192.168.210.126       192.168.210         192.168.210.126       192.168.210         192.168.210.131       192.168.210         192.168.210.36       192.168.210         192.168.210.36       192.168.210         192.168.210.41       192.168.210         192.168.210.44       192.168.210         192.168.210.45       192.168.210         192.168.210.45       192.168.210         192.168.210.45       192.168.210  | 192.168.200.96         192.168.200.101         192.168.200.106         192.168.200.111         192.168.200.116         192.168.200.126         192.168.200.126         192.168.200.131         192.168.200.36         192.168.200.41         192.168.200.46         192.168.200.46  | 192.168.200.100         192.168.200.105         192.168.200.110         192.168.200.115         192.168.200.120         192.168.200.120         192.168.200.130         192.168.200.130         192.168.200.130         192.168.200.400         192.168.200.400         192.168.200.450         192.168.200.500         192.168.200.55   | laite lite   | 192.168.210.91         192.168.210.96         192.168.210.101         192.168.210.106         192.168.210.111         192.168.210.116         192.168.210.126         192.168.210.126         192.168.210.126         192.168.210.126         192.168.210.126         192.168.210.31         192.168.210.36         192.168.210.41         192.168.210.46         192.168.210.51  | 192.168.21(       192.168.21(       192.168.21(       192.168.21(       192.168.21(       192.168.21(       192.168.21(       192.168.21(       192.168.21(       192.168.21(       192.168.21(       192.168.21(       192.168.21(       192.168.21(       192.168.21(       192.168.21(       192.168.21(       192.168.21(       192.168.21(  | 192.168.200.91         192.168.200.96         192.168.200.101         192.168.200.106         192.168.200.111         192.168.200.116         192.168.200.126         192.168.200.126         192.168.200.311         192.168.200.36         192.168.200.41         192.168.200.46         192.168.200.51   | 192.168.200.95         192.168.200.100         192.168.200.105         192.168.200.110         192.168.200.110         192.168.200.120         192.168.200.120         192.168.200.120         192.168.200.130         192.168.200.135         192.168.200.135         192.168.200.400         192.168.200.40         192.168.200.45         192.168.200.50         192.168.200.55  | alla bis   |
| 192.168.200.120         192.168.200.125         192.168.200.130         192.168.200.135         192.168.200.400         192.168.200.450         192.168.200.550         192.168.200.555         192.168.200.600   | 1 Martin   | 192.168.210.101       192.168.210         192.168.210.106       192.168.210         192.168.210.111       192.168.210         192.168.210.116       192.168.210         192.168.210.116       192.168.210         192.168.210.116       192.168.210         192.168.210.126       192.168.210         192.168.210.126       192.168.210         192.168.210.131       192.168.210         192.168.210.36       192.168.210         192.168.210.36       192.168.210         192.168.210.41       192.168.210         192.168.210.45       192.168.210         192.168.210.51       192.168.210         192.168.210.51       192.168.210   | 192.168.200.96         192.168.200.101         192.168.200.106         192.168.200.111         192.168.200.116         192.168.200.121         192.168.200.126         192.168.200.131         192.168.200.131         192.168.200.366         192.168.200.41         192.168.200.41         192.168.200.46         192.168.200.51         192.168.200.51   | 192.168.200.100         192.168.200.105         192.168.200.110         192.168.200.115         192.168.200.120         192.168.200.130         192.168.200.130         192.168.200.135         192.168.200.135         192.168.200.400         192.168.200.45         192.168.200.55         192.168.200.55   |  | 192.168.210.91         192.168.210.96         192.168.210.101         192.168.210.106         192.168.210.106         192.168.210.111         192.168.210.116         192.168.210.121         192.168.210.126         192.168.210.126         192.168.210.131         192.168.210.36         192.168.210.41         192.168.210.41         192.168.210.51         192.168.210.51  | 192.168.21(       192.168.21(       192.168.21(       192.168.21(       192.168.21(       192.168.21(       192.168.21(       192.168.21(       192.168.21(       192.168.21(       192.168.21(       192.168.21(       192.168.21(       192.168.21(       192.168.21(       192.168.21(       192.168.21(       192.168.21(       192.168.21(  | 192.168.200.91         192.168.200.96         192.168.200.101         192.168.200.106         192.168.200.111         192.168.200.116         192.168.200.126         192.168.200.126         192.168.200.131         192.168.200.36         192.168.200.41         192.168.200.41         192.168.200.51         192.168.200.51  | 192.168.200.95         192.168.200.100         192.168.200.105         192.168.200.110         192.168.200.120         192.168.200.120         192.168.200.120         192.168.200.120         192.168.200.120         192.168.200.120         192.168.200.120         192.168.200.130         192.168.200.400         192.168.200.400         192.168.200.500         192.168.200.55         192.168.200.600   | alla blatte  |
| 192.168.200.120         192.168.200.125         192.168.200.130         192.168.200.135         192.168.200.40         192.168.200.45         192.168.200.50         192.168.200.55         192.168.200.65  | a Maria a  | 192.168.210.101       192.168.210         192.168.210.106       192.168.210         192.168.210.111       192.168.210         192.168.210.116       192.168.210         192.168.210.116       192.168.210         192.168.210.116       192.168.210         192.168.210.126       192.168.210         192.168.210.131       192.168.210         192.168.210.311       192.168.210         192.168.210.326       192.168.210         192.168.210.341       192.168.210         192.168.210.441       192.168.210         192.168.210.451       192.168.210         192.168.210.51       192.168.210         192.168.210.51       192.168.210         192.168.210.55       192.168.210         192.168.210.65       192.168.210   | 192.168.200.96         192.168.200.101         192.168.200.106         192.168.200.111         192.168.200.116         192.168.200.126         192.168.200.126         192.168.200.126         192.168.200.131         192.168.200.36         192.168.200.41         192.168.200.41         192.168.200.46         192.168.200.51         192.168.200.51         192.168.200.51         192.168.200.61  | 192.168.200.100         192.168.200.105         192.168.200.110         192.168.200.110         192.168.200.110         192.168.200.120         192.168.200.120         192.168.200.130         192.168.200.130         192.168.200.400         192.168.200.40         192.168.200.50         192.168.200.55         192.168.200.55         192.168.200.60         192.168.200.65  | Lilli lini   | 192.168.210.91         192.168.210.96         192.168.210.101         192.168.210.106         192.168.210.116         192.168.210.116         192.168.210.116         192.168.210.121         192.168.210.126         192.168.210.126         192.168.210.131         192.168.210.36         192.168.210.41         192.168.210.41         192.168.210.51         192.168.210.55         192.168.210.61   | 192.168.21(        | 192.168.200.91         192.168.200.96         192.168.200.101         192.168.200.106         192.168.200.111         192.168.200.116         192.168.200.121         192.168.200.126         192.168.200.131         192.168.200.36         192.168.200.41         192.168.200.41         192.168.200.41         192.168.200.51         192.168.200.51         192.168.200.51  | 192.168.200.95         192.168.200.100         192.168.200.105         192.168.200.110         192.168.200.110         192.168.200.110         192.168.200.120         192.168.200.120         192.168.200.120         192.168.200.130         192.168.200.135         192.168.200.400         192.168.200.45         192.168.200.45         192.168.200.55         192.168.200.60         192.168.200.65   | 1111 11111   |
| 192.168.200.120         192.168.200.125         192.168.200.135         192.168.200.135         192.168.200.40         192.168.200.45         192.168.200.55         192.168.200.55         192.168.200.65         192.168.200.65   | a blada m  | 192.168.210.101       192.168.210         192.168.210.106       192.168.210         192.168.210.111       192.168.210         192.168.210.116       192.168.210         192.168.210.116       192.168.210         192.168.210.121       192.168.210         192.168.210.126       192.168.210         192.168.210.126       192.168.210         192.168.210.126       192.168.210         192.168.210.36       192.168.210         192.168.210.36       192.168.210         192.168.210.36       192.168.210         192.168.210.36       192.168.210         192.168.210.36       192.168.210         192.168.210.36       192.168.210         192.168.210.36       192.168.210         192.168.210.41       192.168.210         192.168.210.45       192.168.210         192.168.210.51       192.168.210         192.168.210.51       192.168.210         192.168.210.61       192.168.210         192.168.210.61       192.168.210         192.168.210.66       192.168.210   | 192.168.200.96         192.168.200.101         192.168.200.106         192.168.200.111         192.168.200.116         192.168.200.126         192.168.200.126         192.168.200.126         192.168.200.131         192.168.200.36         192.168.200.41         192.168.200.41         192.168.200.51         192.168.200.51         192.168.200.61         192.168.200.61   | 192.168.200.100         192.168.200.105         192.168.200.115         192.168.200.120         192.168.200.120         192.168.200.135         192.168.200.130         192.168.200.130         192.168.200.135         192.168.200.400         192.168.200.450         192.168.200.50         192.168.200.55         192.168.200.65         192.168.200.65  |  | 192.168.210.91         192.168.210.96         192.168.210.101         192.168.210.106         192.168.210.116         192.168.210.116         192.168.210.121         192.168.210.126         192.168.210.126         192.168.210.126         192.168.210.131         192.168.210.46         192.168.210.46         192.168.210.51         192.168.210.61         192.168.210.61  | 192.168.21(        | 192.168.200.91         192.168.200.96         192.168.200.101         192.168.200.106         192.168.200.111         192.168.200.116         192.168.200.121         192.168.200.126         192.168.200.126         192.168.200.131         192.168.200.36         192.168.200.41         192.168.200.46         192.168.200.51         192.168.200.51         192.168.200.61         192.168.200.61  | 192.168.200.95         192.168.200.100         192.168.200.110         192.168.200.110         192.168.200.110         192.168.200.110         192.168.200.120         192.168.200.120         192.168.200.120         192.168.200.130         192.168.200.135         192.168.200.400         192.168.200.400         192.168.200.50         192.168.200.50         192.168.200.65         192.168.200.65         192.168.200.65   | alla liata an  |
| 192.168.200.120         192.168.200.125         192.168.200.130         192.168.200.135         192.168.200.400         192.168.200.400         192.168.200.500         192.168.200.550         192.168.200.655         192.168.200.655         192.168.200.700         192.168.200.700         192.168.200.705   | a blada ad   | 192.168.210.101       192.168.210         192.168.210.106       192.168.210         192.168.210.111       192.168.210         192.168.210.116       192.168.210         192.168.210.116       192.168.210         192.168.210.121       192.168.210         192.168.210.126       192.168.210         192.168.210.126       192.168.210         192.168.210.131       192.168.210         192.168.210.36       192.168.210         192.168.210.36       192.168.210         192.168.210.36       192.168.210         192.168.210.31       192.168.210         192.168.210.36       192.168.210         192.168.210.36       192.168.210         192.168.210.51       192.168.210         192.168.210.51       192.168.210         192.168.210.61       192.168.210         192.168.210.61       192.168.210         192.168.210.66       192.168.210         192.168.210.66       192.168.210         192.168.210.71       192.168.210  | 192.168.200.96         192.168.200.101         192.168.200.106         192.168.200.111         192.168.200.116         192.168.200.121         192.168.200.126         192.168.200.131         102.168.200.131         102.168.200.36         192.168.200.41         192.168.200.46         192.168.200.51         192.168.200.51         192.168.200.61         192.168.200.66         192.168.200.66  | 192.168.200.100         192.168.200.105         192.168.200.115         192.168.200.120         192.168.200.120         192.168.200.130         192.168.200.130         192.168.200.130         192.168.200.130         192.168.200.130         192.168.200.400         192.168.200.450         192.168.200.550         192.168.200.50         192.168.200.50         192.168.200.50         192.168.200.50         192.168.200.50         192.168.200.50         192.168.200.50         192.168.200.70         192.168.200.70   |  | 192.168.210.91           192.168.210.96           192.168.210.101           192.168.210.106           192.168.210.111           192.168.210.116           192.168.210.116           192.168.210.126           192.168.210.126           192.168.210.126           192.168.210.131           192.168.210.36           192.168.210.41           192.168.210.41           192.168.210.51           192.168.210.51           192.168.210.61           192.168.210.66           192.168.210.66   | 192.168.21(        | 192.168.200.91         192.168.200.96         192.168.200.101         192.168.200.106         192.168.200.116         192.168.200.116         192.168.200.126         192.168.200.126         192.168.200.126         192.168.200.131         192.168.200.36         192.168.200.41         192.168.200.45         192.168.200.51         192.168.200.51         192.168.200.61         192.168.200.61         192.168.200.61   | 192.168.200.95         192.168.200.100         192.168.200.105         192.168.200.110         192.168.200.110         192.168.200.110         192.168.200.120         192.168.200.120         192.168.200.130         192.168.200.135         192.168.200.130         192.168.200.130         192.168.200.130         192.168.200.400         192.168.200.50         192.168.200.55         192.168.200.65         192.168.200.70         192.168.200.70   | alla biata at  |
| 192.168.200.120         192.168.200.125         192.168.200.130         192.168.200.135         192.168.200.40         192.168.200.40         192.168.200.50         192.168.200.50         192.168.200.55         192.168.200.65         192.168.200.65         192.168.200.70         192.168.200.75         192.168.200.75         192.168.200.75  | a blada add  | 192.168.210.101       192.168.210         192.168.210.106       192.168.210         192.168.210.111       192.168.210         192.168.210.116       192.168.210         192.168.210.116       192.168.210         192.168.210.116       192.168.210         192.168.210.126       192.168.210         192.168.210.126       192.168.210         192.168.210.131       192.168.210         192.168.210.36       192.168.210         192.168.210.36       192.168.210         192.168.210.41       192.168.210         192.168.210.41       192.168.210         192.168.210.45       192.168.210         192.168.210.46       192.168.210         192.168.210.41       192.168.210         192.168.210.45       192.168.210         192.168.210.45       192.168.210         192.168.210.46       192.168.210         192.168.210.51       192.168.210         192.168.210.61       192.168.210         192.168.210.61       192.168.210         192.168.210.71       192.168.210         192.168.210.76       192.168.210         192.168.210.76       192.168.210   | 192.168.200.96           192.168.200.101           192.168.200.106           192.168.200.111           192.168.200.116           192.168.200.116           192.168.200.121           192.168.200.126           192.168.200.131           192.168.200.36           192.168.200.36           192.168.200.41           192.168.200.51           192.168.200.51           192.168.200.61           192.168.200.61           192.168.200.71           192.168.200.71   | 192.168.200.100         192.168.200.105         192.168.200.115         192.168.200.120         192.168.200.120         192.168.200.130         192.168.200.135         192.168.200.400         192.168.200.400         192.168.200.455         192.168.200.55         192.168.200.55         192.168.200.65         192.168.200.70         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75   |  | 192.168.210.91           192.168.210.96           192.168.210.101           192.168.210.106           192.168.210.106           192.168.210.111           192.168.210.116           192.168.210.116           192.168.210.121           192.168.210.126           192.168.210.131           192.168.210.41           192.168.210.41           192.168.210.41           192.168.210.51           192.168.210.51           192.168.210.61           192.168.210.61           192.168.210.71           192.168.210.71  | 192.168.21(          | 192.168.200.91         192.168.200.96         192.168.200.101         192.168.200.106         192.168.200.111         192.168.200.116         192.168.200.121         192.168.200.126         192.168.200.126         192.168.200.131         192.168.200.41         192.168.200.41         192.168.200.41         192.168.200.41         192.168.200.51         192.168.200.51         192.168.200.61         192.168.200.71         192.168.200.71  | 192.168.200.95         192.168.200.100         192.168.200.105         192.168.200.110         192.168.200.110         192.168.200.110         192.168.200.120         192.168.200.120         192.168.200.120         192.168.200.130         192.168.200.130         192.168.200.450         192.168.200.450         192.168.200.50         192.168.200.60         192.168.200.60         192.168.200.70         192.168.200.75         192.168.200.75  | alla biata att   |
| 192.168.200.120         192.168.200.125         192.168.200.135         192.168.200.135         192.168.200.40         192.168.200.45         192.168.200.55         192.168.200.55         192.168.200.65         192.168.200.65         192.168.200.70         192.168.200.75         192.168.200.85         192.168.200.85   | a blatta talta   | 192.168.210.101       192.168.210         192.168.210.106       192.168.210         192.168.210.111       192.168.210         192.168.210.116       192.168.210         192.168.210.116       192.168.210         192.168.210.116       192.168.210         192.168.210.126       192.168.210         192.168.210.126       192.168.210         192.168.210.131       192.168.210         192.168.210.131       192.168.210         192.168.210.131       192.168.210         192.168.210.36       192.168.210         192.168.210.41       192.168.210         192.168.210.41       192.168.210         192.168.210.41       192.168.210         192.168.210.45       192.168.210         192.168.210.46       192.168.210         192.168.210.41       192.168.210         192.168.210.45       192.168.210         192.168.210.51       192.168.210         192.168.210.66       192.168.210         192.168.210.66       192.168.210         192.168.210.76       192.168.210         192.168.210.76       192.168.210         192.168.210.76       192.168.210         192.168.210.76       192.168.210         192.168.210.76 <t< td=""><td>192.168.200.96           192.168.200.101           192.168.200.106           192.168.200.111           192.168.200.116           192.168.200.116           192.168.200.126           192.168.200.126           192.168.200.131           192.168.200.131           192.168.200.36           192.168.200.41           192.168.200.46           192.168.200.51           192.168.200.61           192.168.200.61           192.168.200.71           192.168.200.76           192.168.200.76           192.168.200.76</td><td>192.168.200.100         192.168.200.105         192.168.200.115         192.168.200.120         192.168.200.120         192.168.200.120         192.168.200.130         192.168.200.130         192.168.200.130         192.168.200.400         192.168.200.450         192.168.200.50         192.168.200.55         192.168.200.65         192.168.200.70         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.80         192.168.200.80</td><td></td><td>192.168.210.91         192.168.210.96         192.168.210.101         192.168.210.106         192.168.210.111         192.168.210.116         192.168.210.116         192.168.210.121         192.168.210.126         192.168.210.126         192.168.210.131         192.168.210.46         192.168.210.41         192.168.210.46         192.168.210.46         192.168.210.61         192.168.210.61         192.168.210.61         192.168.210.71         192.168.210.76         192.168.210.76         192.168.210.76</td><td>192.168.21(       192.168.21(</td><td>192.168.200.91         192.168.200.96         192.168.200.101         192.168.200.106         192.168.200.111         192.168.200.116         192.168.200.121         192.168.200.126         192.168.200.126         192.168.200.131         192.168.200.36         192.168.200.41         192.168.200.46         192.168.200.46         192.168.200.61         192.168.200.61         192.168.200.61         192.168.200.71         192.168.200.76         192.168.200.76         192.168.200.81</td><td>192.168.200.95         192.168.200.100         192.168.200.110         192.168.200.110         192.168.200.110         192.168.200.110         192.168.200.120         192.168.200.120         192.168.200.120         192.168.200.120         192.168.200.130         192.168.200.135         192.168.200.400         192.168.200.50         192.168.200.55         192.168.200.65         192.168.200.65         192.168.200.70         192.168.200.75         192.168.200.80         192.168.200.80</td><td></td></t<>   | 192.168.200.96           192.168.200.101           192.168.200.106           192.168.200.111           192.168.200.116           192.168.200.116           192.168.200.126           192.168.200.126           192.168.200.131           192.168.200.131           192.168.200.36           192.168.200.41           192.168.200.46           192.168.200.51           192.168.200.61           192.168.200.61           192.168.200.71           192.168.200.76           192.168.200.76           192.168.200.76  | 192.168.200.100         192.168.200.105         192.168.200.115         192.168.200.120         192.168.200.120         192.168.200.120         192.168.200.130         192.168.200.130         192.168.200.130         192.168.200.400         192.168.200.450         192.168.200.50         192.168.200.55         192.168.200.65         192.168.200.70         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.80         192.168.200.80  |  | 192.168.210.91         192.168.210.96         192.168.210.101         192.168.210.106         192.168.210.111         192.168.210.116         192.168.210.116         192.168.210.121         192.168.210.126         192.168.210.126         192.168.210.131         192.168.210.46         192.168.210.41         192.168.210.46         192.168.210.46         192.168.210.61         192.168.210.61         192.168.210.61         192.168.210.71         192.168.210.76         192.168.210.76         192.168.210.76  | 192.168.21(        | 192.168.200.91         192.168.200.96         192.168.200.101         192.168.200.106         192.168.200.111         192.168.200.116         192.168.200.121         192.168.200.126         192.168.200.126         192.168.200.131         192.168.200.36         192.168.200.41         192.168.200.46         192.168.200.46         192.168.200.61         192.168.200.61         192.168.200.61         192.168.200.71         192.168.200.76         192.168.200.76         192.168.200.81  | 192.168.200.95         192.168.200.100         192.168.200.110         192.168.200.110         192.168.200.110         192.168.200.110         192.168.200.120         192.168.200.120         192.168.200.120         192.168.200.120         192.168.200.130         192.168.200.135         192.168.200.400         192.168.200.50         192.168.200.55         192.168.200.65         192.168.200.65         192.168.200.70         192.168.200.75         192.168.200.80         192.168.200.80  |  |
| 192.168.200.120         192.168.200.125         192.168.200.135         192.168.200.135         192.168.200.40         192.168.200.45         192.168.200.55         192.168.200.55         192.168.200.65         192.168.200.70         192.168.200.70         192.168.200.70         192.168.200.70         192.168.200.80         192.168.200.85         192.168.200.85         192.168.200.85         192.168.200.80   | a blada mildi  | 192.168.210.101       192.168.210         192.168.210.106       192.168.210         192.168.210.111       192.168.210         192.168.210.116       192.168.210         192.168.210.116       192.168.210         192.168.210.116       192.168.210         192.168.210.126       192.168.210         192.168.210.126       192.168.210         192.168.210.131       192.168.210         192.168.210.36       192.168.210         192.168.210.36       192.168.210         192.168.210.36       192.168.210         192.168.210.36       192.168.210         192.168.210.31       192.168.210         192.168.210.36       192.168.210         192.168.210.31       192.168.210         192.168.210.51       192.168.210         192.168.210.51       192.168.210         192.168.210.61       192.168.210         192.168.210.65       192.168.210         192.168.210.71       192.168.210         192.168.210.76       192.168.210         192.168.210.76       192.168.210         192.168.210.76       192.168.210         192.168.210.81       192.168.210         192.168.210.81       192.168.210         192.168.210.81   | 192.168.200.96           192.168.200.101           192.168.200.106           192.168.200.111           192.168.200.116           192.168.200.116           192.168.200.121           192.168.200.126           192.168.200.131           102.168.200.131           102.168.200.36           192.168.200.41           192.168.200.46           192.168.200.51           192.168.200.61           192.168.200.61           192.168.200.66           192.168.200.71           192.168.200.76           192.168.200.81           192.168.200.81   | 192.168.200.100         192.168.200.105         192.168.200.115         192.168.200.120         192.168.200.120         192.168.200.120         192.168.200.130         192.168.200.130         192.168.200.130         192.168.200.400         192.168.200.450         192.168.200.550         192.168.200.550         192.168.200.550         192.168.200.700         192.168.200.700         192.168.200.755         192.168.200.755         192.168.200.755         192.168.200.755         192.168.200.850         192.168.200.850         192.168.200.850         192.168.200.855         192.168.200.805         192.168.200.805         192.168.200.805  |  | 192.168.210.91         192.168.210.96         192.168.210.101         192.168.210.106         192.168.210.111         192.168.210.116         192.168.210.126         192.168.210.126         192.168.210.126         192.168.210.126         192.168.210.126         192.168.210.131         192.168.210.41         192.168.210.46         192.168.210.46         192.168.210.61         192.168.210.66         192.168.210.71         192.168.210.76         192.168.210.81         192.168.210.81  | 192.168.21(        | 192.168.200.91         192.168.200.96         192.168.200.101         192.168.200.106         192.168.200.111         192.168.200.116         192.168.200.126         192.168.200.126         192.168.200.126         192.168.200.131         192.168.200.36         192.168.200.41         192.168.200.46         192.168.200.46         192.168.200.51         192.168.200.61         192.168.200.61         192.168.200.71         192.168.200.71         192.168.200.76         192.168.200.81         192.168.200.81   | 192.168.200.95         192.168.200.100         192.168.200.110         192.168.200.110         192.168.200.110         192.168.200.110         192.168.200.120         192.168.200.120         192.168.200.130         192.168.200.130         192.168.200.135         192.168.200.135         192.168.200.400         192.168.200.50         192.168.200.50         192.168.200.50         192.168.200.50         192.168.200.50         192.168.200.50         192.168.200.50         192.168.200.50         192.168.200.50         192.168.200.50         192.168.200.65         192.168.200.70         192.168.200.70         192.168.200.80         192.168.200.85         192.168.200.85  | alla blatte astall   |
| 192.168.200.120         192.168.200.125         192.168.200.130         192.168.200.135         192.168.200.40         192.168.200.40         192.168.200.40         192.168.200.50         192.168.200.50         192.168.200.55         192.168.200.65         192.168.200.70         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75  | a blatte minite  | 192.168.210.101       192.168.210         192.168.210.106       192.168.210         192.168.210.111       192.168.210         192.168.210.116       192.168.210         192.168.210.116       192.168.210         192.168.210.116       192.168.210         192.168.210.126       192.168.210         192.168.210.126       192.168.210         192.168.210.131       192.168.210         192.168.210.36       192.168.210         192.168.210.36       192.168.210         192.168.210.36       192.168.210         192.168.210.36       192.168.210         192.168.210.36       192.168.210         192.168.210.31       192.168.210         192.168.210.31       192.168.210         192.168.210.51       192.168.210         192.168.210.61       192.168.210         192.168.210.61       192.168.210         192.168.210.71       192.168.210         192.168.210.75       192.168.210         192.168.210.76       192.168.210         192.168.210.81       192.168.210         192.168.210.85       192.168.210         192.168.210.86       192.168.210         192.168.210.91       192.168.210  | 192.168.200.96         192.168.200.101         192.168.200.106         192.168.200.111         192.168.200.116         192.168.200.116         192.168.200.121         192.168.200.126         192.168.200.131         192.168.200.131         192.168.200.41         192.168.200.41         192.168.200.46         192.168.200.51         192.168.200.51         192.168.200.66         192.168.200.71         192.168.200.71         192.168.200.71         192.168.200.81         192.168.200.81         192.168.200.81         192.168.200.91   | 192.168.200.100         192.168.200.105         192.168.200.115         192.168.200.120         192.168.200.120         192.168.200.130         192.168.200.135         192.168.200.135         192.168.200.135         192.168.200.400         192.168.200.450         192.168.200.55         192.168.200.55         192.168.200.55         192.168.200.55         192.168.200.55         192.168.200.55         192.168.200.55         192.168.200.55         192.168.200.55         192.168.200.55         192.168.200.55         192.168.200.55         192.168.200.55         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.80         192.168.200.90         192.168.200.90   |  | 192.168.210.91           192.168.210.96           192.168.210.101           192.168.210.106           192.168.210.111           192.168.210.116           192.168.210.116           192.168.210.126           192.168.210.126           192.168.210.126           192.168.210.131           192.168.210.131           192.168.210.41           192.168.210.41           192.168.210.51           192.168.210.51           192.168.210.61           192.168.210.61           192.168.210.71           192.168.210.75           192.168.210.76           192.168.210.81           192.168.210.81           192.168.210.81           192.168.210.81           192.168.210.81           192.168.210.81           192.168.210.81           192.168.210.81           192.168.210.81   | 192.168.21(          | 192.168.200.91         192.168.200.96         192.168.200.101         192.168.200.106         192.168.200.116         192.168.200.116         192.168.200.116         192.168.200.126         192.168.200.126         192.168.200.126         192.168.200.36         192.168.200.41         192.168.200.41         192.168.200.46         192.168.200.51         192.168.200.51         192.168.200.66         192.168.200.71         192.168.200.76         192.168.200.76         192.168.200.81         192.168.200.86         192.168.200.86         192.168.200.80   | 192.168.200.95         192.168.200.100         192.168.200.105         192.168.200.110         192.168.200.110         192.168.200.110         192.168.200.120         192.168.200.120         192.168.200.130         192.168.200.130         192.168.200.130         192.168.200.130         192.168.200.130         192.168.200.50         192.168.200.55         192.168.200.55         192.168.200.65         192.168.200.70         192.168.200.70         192.168.200.70         192.168.200.70         192.168.200.70         192.168.200.70         192.168.200.70         192.168.200.70         192.168.200.70         192.168.200.70         192.168.200.70         192.168.200.70         192.168.200.70         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| 192.168.200.120         192.168.200.125         192.168.200.130         192.168.200.135         192.168.200.40         192.168.200.40         192.168.200.50         192.168.200.50         192.168.200.50         192.168.200.60         192.168.200.60         192.168.200.70         192.168.200.70         192.168.200.70         192.168.200.70         192.168.200.70         192.168.200.70         192.168.200.70         192.168.200.70         192.168.200.70         192.168.200.70         192.168.200.70         192.168.200.70         192.168.200.70         192.168.200.70         192.168.200.70   | a blana mballa   | 192.168.210.101       192.168.21(         192.168.210.106       192.168.21(         192.168.210.111       192.168.21(         192.168.210.116       192.168.21(         192.168.210.116       192.168.21(         192.168.210.116       192.168.21(         192.168.210.126       192.168.21(         192.168.210.126       192.168.21(         192.168.210.131       192.168.21(         192.168.210.36       192.168.21(         192.168.210.41       192.168.21(         192.168.210.41       192.168.21(         192.168.210.41       192.168.21(         192.168.210.41       192.168.21(         192.168.210.41       192.168.21(         192.168.210.51       192.168.21(         192.168.210.51       192.168.21(         192.168.210.61       192.168.21(         192.168.210.71       192.168.21(         192.168.210.76       192.168.21(         192.168.210.76       192.168.21(         192.168.210.76       192.168.21(         192.168.210.76       192.168.21(         192.168.210.76       192.168.21(         192.168.210.76       192.168.21(         192.168.210.76       192.168.21(         192.168.210.81   | 192.168.200.96         192.168.200.101         192.168.200.106         192.168.200.116         192.168.200.116         192.168.200.116         192.168.200.126         192.168.200.126         192.168.200.131         192.168.200.36         192.168.200.36         192.168.200.41         192.168.200.46         192.168.200.51         192.168.200.61         192.168.200.61         192.168.200.71         192.168.200.76         192.168.200.81         192.168.200.91         192.168.200.91  | 192.168.200.100         192.168.200.105         192.168.200.110         192.168.200.120         192.168.200.120         192.168.200.120         192.168.200.130         192.168.200.130         192.168.200.130         192.168.200.400         192.168.200.400         192.168.200.400         192.168.200.400         192.168.200.50         192.168.200.50         192.168.200.60         192.168.200.70         192.168.200.70         192.168.200.70         192.168.200.80         192.168.200.80         192.168.200.90         192.168.200.90         192.168.200.90         192.168.200.90  |  | 192.168.210.91         192.168.210.96         192.168.210.101         192.168.210.106         192.168.210.111         192.168.210.116         192.168.210.116         192.168.210.121         192.168.210.126         192.168.210.126         192.168.210.131         192.168.210.41         192.168.210.46         192.168.210.41         192.168.210.46         192.168.210.61         192.168.210.61         192.168.210.61         192.168.210.71         192.168.210.76         192.168.210.76         192.168.210.81         192.168.210.91         192.168.210.91         192.168.210.91   | 192.168.21(          | 192.168.200.91         192.168.200.96         192.168.200.101         192.168.200.106         192.168.200.111         192.168.200.116         192.168.200.121         192.168.200.126         192.168.200.126         192.168.200.131         192.168.200.36         192.168.200.41         192.168.200.46         192.168.200.41         192.168.200.41         192.168.200.41         192.168.200.51         192.168.200.61         192.168.200.71         192.168.200.76         192.168.200.81         192.168.200.91         192.168.200.91         192.168.200.91   | 192.168.200.95         192.168.200.100         192.168.200.110         192.168.200.110         192.168.200.110         192.168.200.110         192.168.200.120         192.168.200.120         192.168.200.120         192.168.200.120         192.168.200.130         192.168.200.135         192.168.200.400         192.168.200.400         192.168.200.50         192.168.200.55         192.168.200.65         192.168.200.70         192.168.200.70         192.168.200.70         192.168.200.80         192.168.200.80         192.168.200.80         192.168.200.90         192.168.200.90         192.168.200.90         192.168.200.90   |  |
| 192.168.200.120         192.168.200.125         192.168.200.135         192.168.200.135         192.168.200.400         192.168.200.400         192.168.200.400         192.168.200.450         192.168.200.550         192.168.200.550         192.168.200.650         192.168.200.700         192.168.200.700         192.168.200.700         192.168.200.700         192.168.200.700         192.168.200.700         192.168.200.700         192.168.200.700         192.168.200.700         192.168.200.700         192.168.200.700         192.168.200.700         192.168.200.700         192.168.200.700         192.168.200.700         192.168.200.700         192.168.200.700         192.168.200.700                         | a blade minite   | 192.168.210.101       192.168.210         192.168.210.106       192.168.210         192.168.210.111       192.168.210         192.168.210.116       192.168.210         192.168.210.116       192.168.210         192.168.210.116       192.168.210         192.168.210.126       192.168.210         192.168.210.126       192.168.210         192.168.210.131       192.168.210         192.168.210.131       192.168.210         192.168.210.36       192.168.210         192.168.210.41       192.168.210         192.168.210.41       192.168.210         192.168.210.41       192.168.210         192.168.210.45       192.168.210         192.168.210.46       192.168.210         192.168.210.41       192.168.210         192.168.210.45       192.168.210         192.168.210.51       192.168.210         192.168.210.61       192.168.210         192.168.210.61       192.168.210         192.168.210.71       192.168.210         192.168.210.76       192.168.210         192.168.210.71       192.168.210         192.168.210.85       192.168.210         192.168.210.81       192.168.210         192.168.210.85 <td< td=""><td>192.168.200.96         192.168.200.101         192.168.200.106         192.168.200.111         192.168.200.116         192.168.200.116         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192.168.210.111           192.168.210.116           192.168.210.116           192.168.210.121           192.168.210.126           192.168.210.126           192.168.210.131           192.168.210.131           192.168.210.46           192.168.210.46           192.168.210.46           192.168.210.61           192.168.210.61           192.168.210.61           192.168.210.61           192.168.210.61           192.168.210.61           192.168.210.61           192.168.210.61           192.168.210.61           192.168.210.61           192.168.210.61           192.168.210.61           192.168.210.71           192.168.210.76           192.168.210.81           192.168.210.91           192.168.210.91           192.168.210.96           192.168.210.96           192.168.210.96           192.168.210.91</td><td>192.168.21(       192.168.21(</td><td>192.168.200.91         192.168.200.96         192.168.200.101         192.168.200.106         192.168.200.111         192.168.200.116         192.168.200.126         192.168.200.126         192.168.200.126         192.168.200.131         192.168.200.36         192.168.200.41         192.168.200.46         192.168.200.51         192.168.200.61         192.168.200.61         192.168.200.71         192.168.200.76         192.168.200.81         192.168.200.81         192.168.200.91         192.168.200.91         192.168.200.91</td><td>192.168.200.95         192.168.200.100         192.168.200.110         192.168.200.110         192.168.200.110         192.168.200.110         192.168.200.120         192.168.200.120         192.168.200.130         192.168.200.130         192.168.200.135         192.168.200.400         192.168.200.400         192.168.200.50         192.168.200.50         192.168.200.50         192.168.200.50         192.168.200.65         192.168.200.70         192.168.200.75</td><td></td></td<> | 192.168.200.96         192.168.200.101         192.168.200.106         192.168.200.111         192.168.200.116         192.168.200.116         192.168.200.121         192.168.200.126         192.168.200.131         192.168.200.131         192.168.200.36         192.168.200.41         192.168.200.41         192.168.200.46         192.168.200.51         192.168.200.61         192.168.200.61         192.168.200.61         192.168.200.71         192.168.200.76         192.168.200.81         192.168.200.91         192.168.200.91         192.168.200.91         192.168.200.91   | 192.168.200.100         192.168.200.105         192.168.200.115         192.168.200.120         192.168.200.120         192.168.200.120         192.168.200.130         192.168.200.130         192.168.200.130         192.168.200.130         192.168.200.400         192.168.200.50         192.168.200.55         192.168.200.70         192.168.200.70         192.168.200.70         192.168.200.75         192.168.200.70         192.168.200.75                           |  | 192.168.210.91           192.168.210.96           192.168.210.101           192.168.210.106           192.168.210.111           192.168.210.116           192.168.210.116           192.168.210.121           192.168.210.126           192.168.210.126           192.168.210.131           192.168.210.131           192.168.210.46           192.168.210.46           192.168.210.46           192.168.210.61           192.168.210.61           192.168.210.61           192.168.210.61           192.168.210.61           192.168.210.61           192.168.210.61           192.168.210.61           192.168.210.61           192.168.210.61           192.168.210.61           192.168.210.61           192.168.210.71           192.168.210.76           192.168.210.81           192.168.210.91           192.168.210.91           192.168.210.96           192.168.210.96           192.168.210.96           192.168.210.91   | 192.168.21(        | 192.168.200.91         192.168.200.96         192.168.200.101         192.168.200.106         192.168.200.111         192.168.200.116         192.168.200.126         192.168.200.126         192.168.200.126         192.168.200.131         192.168.200.36         192.168.200.41         192.168.200.46         192.168.200.51         192.168.200.61         192.168.200.61         192.168.200.71         192.168.200.76         192.168.200.81         192.168.200.81         192.168.200.91         192.168.200.91         192.168.200.91  | 192.168.200.95         192.168.200.100         192.168.200.110         192.168.200.110         192.168.200.110         192.168.200.110         192.168.200.120         192.168.200.120         192.168.200.130         192.168.200.130         192.168.200.135         192.168.200.400         192.168.200.400         192.168.200.50         192.168.200.50         192.168.200.50         192.168.200.50         192.168.200.65         192.168.200.70         192.168.200.75  |  |
| 192.168.200.120         192.168.200.135         192.168.200.135         192.168.200.135         192.168.200.40         192.168.200.40         192.168.200.50         192.168.200.55         192.168.200.55         192.168.200.65         192.168.200.70         192.168.200.70         192.168.200.70         192.168.200.70         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75  | a blada addallad   | 192.168.210.101       192.168.210         192.168.210.106       192.168.210         192.168.210.111       192.168.210         192.168.210.116       192.168.210         192.168.210.116       192.168.210         192.168.210.126       192.168.210         192.168.210.126       192.168.210         192.168.210.126       192.168.210         192.168.210.131       192.168.210         192.168.210.36       192.168.210         192.168.210.36       192.168.210         192.168.210.41       192.168.210         192.168.210.45       192.168.210         192.168.210.46       192.168.210         192.168.210.51       192.168.210         192.168.210.51       192.168.210         192.168.210.61       192.168.210         192.168.210.61       192.168.210         192.168.210.71       192.168.210         192.168.210.75       192.168.210         192.168.210.76       192.168.210         192.168.210.76       192.168.210         192.168.210.76       192.168.210         192.168.210.76       192.168.210         192.168.210.76       192.168.210         192.168.210.76       192.168.210         192.168.210.76   | 192.168.200.96         192.168.200.101         192.168.200.106         192.168.200.111         192.168.200.116         192.168.200.116         192.168.200.121         192.168.200.126         192.168.200.131         102.168.200.131         102.168.200.36         192.168.200.41         192.168.200.46         192.168.200.46         192.168.200.51         192.168.200.51         192.168.200.61         192.168.200.61         192.168.200.71         192.168.200.76         192.168.200.71         192.168.200.81         192.168.200.91         192.168.200.91         192.168.200.91         192.168.200.91         192.168.200.101  | 192.168.200.100         192.168.200.105         192.168.200.115         192.168.200.120         192.168.200.120         192.168.200.120         192.168.200.130         192.168.200.130         192.168.200.130         192.168.200.130         192.168.200.400         192.168.200.450         192.168.200.550         192.168.200.550         192.168.200.550         192.168.200.700         192.168.200.700         192.168.200.750         192.168.200.700         192.168.200.700         192.168.200.700         192.168.200.700         192.168.200.700         192.168.200.700         192.168.200.700         192.168.200.700         192.168.200.700         192.168.200.700         192.168.200.900         192.168.200.905         192.168.200.100         192.168.200.100         192.168.200.105  |  | 192.168.210.91         192.168.210.96         192.168.210.101         192.168.210.106         192.168.210.111         192.168.210.116         192.168.210.116         192.168.210.126         192.168.210.126         192.168.210.126         192.168.210.131         192.168.210.131         192.168.210.41         192.168.210.46         192.168.210.41         192.168.210.51         192.168.210.66         192.168.210.66         192.168.210.71         192.168.210.76         192.168.210.81         192.168.210.81         192.168.210.91         192.168.210.91         192.168.210.101         192.168.210.101   | 192.168.21(        | 192.168.200.91         192.168.200.96         192.168.200.101         192.168.200.106         192.168.200.111         192.168.200.116         192.168.200.116         192.168.200.126         192.168.200.126         192.168.200.131         192.168.200.36         192.168.200.41         192.168.200.46         192.168.200.46         192.168.200.51         192.168.200.66         192.168.200.61         192.168.200.61         192.168.200.71         192.168.200.76         192.168.200.81         192.168.200.81         192.168.200.96         192.168.200.91         192.168.200.91         192.168.200.91         192.168.200.91  | 192.168.200.95         192.168.200.100         192.168.200.110         192.168.200.110         192.168.200.110         192.168.200.110         192.168.200.120         192.168.200.120         192.168.200.130         192.168.200.130         192.168.200.130         192.168.200.130         192.168.200.130         192.168.200.400         192.168.200.50         192.168.200.50         192.168.200.50         192.168.200.50         192.168.200.50         192.168.200.70 |  |
| 192.168.200.120         192.168.200.135         192.168.200.130         192.168.200.135         192.168.200.40         192.168.200.40         192.168.200.40         192.168.200.40         192.168.200.50         192.168.200.50         192.168.200.65         192.168.200.70         192.168.200.70         192.168.200.70         192.168.200.70         192.168.200.70         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75  | a biana mininala   | 192.168.210.101       192.168.210         192.168.210.106       192.168.210         192.168.210.111       192.168.210         192.168.210.116       192.168.210         192.168.210.116       192.168.210         192.168.210.116       192.168.210         192.168.210.126       192.168.210         192.168.210.126       192.168.210         192.168.210.131       192.168.210         192.168.210.36       192.168.210         192.168.210.36       192.168.210         192.168.210.41       192.168.210         192.168.210.41       192.168.210         192.168.210.41       192.168.210         192.168.210.45       192.168.210         192.168.210.46       192.168.210         192.168.210.51       192.168.210         192.168.210.56       192.168.210         192.168.210.61       192.168.210         192.168.210.71       192.168.210         192.168.210.76       192.168.210         192.168.210.76       192.168.210         192.168.210.76       192.168.210         192.168.210.76       192.168.210         192.168.210.76       192.168.210         192.168.210.77       192.168.210         192.168.210.77   | 192.168.200.96         192.168.200.101         192.168.200.106         192.168.200.111         192.168.200.116         192.168.200.116         192.168.200.126         192.168.200.126         192.168.200.131         192.168.200.36         192.168.200.41         192.168.200.41         192.168.200.51         192.168.200.51         192.168.200.61         192.168.200.71         192.168.200.71         192.168.200.71         192.168.200.71         192.168.200.71         192.168.200.71         192.168.200.71         192.168.200.71         192.168.200.71         192.168.200.71         192.168.200.71         192.168.200.71         192.168.200.71         192.168.200.71         192.168.200.71         192.168.200.71         192.168.200.71         192.168.200.71         192.168.200.71         192.168.200.91         192.168.200.91         192.168.200.91         192.168.200.101         192.168.200.106         192.168.200.106         192.168.200.101 </td <td>192.168.200.100         192.168.200.105         192.168.200.110         192.168.200.120         192.168.200.120         192.168.200.120         192.168.200.130         192.168.200.135         192.168.200.400         192.168.200.400         192.168.200.400         192.168.200.400         192.168.200.400         192.168.200.450         192.168.200.55         192.168.200.65         192.168.200.70         192.168.200.70         192.168.200.70         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.100         192.168.200.110         192.168.200.110</td> <td></td> <td>192.168.210.91         192.168.210.96         192.168.210.101         192.168.210.106         192.168.210.111         192.168.210.116         192.168.210.116         192.168.210.121         192.168.210.126         192.168.210.131         192.168.210.131         192.168.210.131         192.168.210.46         192.168.210.41         192.168.210.46         192.168.210.46         192.168.210.61         192.168.210.61         192.168.210.61         192.168.210.71         192.168.210.76         192.168.210.76         192.168.210.76         192.168.210.76         192.168.210.76         192.168.210.76         192.168.210.76         192.168.210.76         192.168.210.76         192.168.210.76         192.168.210.76         192.168.210.76         192.168.210.76         192.168.210.76         192.168.210.91         192.168.210.91         192.168.210.91         192.168.210.91         192.168.210.101         192.168.210.106          192.168.210.106    <td>192.168.21(         192.168.21(</td><td>192.168.200.91         192.168.200.96         192.168.200.101         192.168.200.106         192.168.200.111         192.168.200.116         192.168.200.126         192.168.200.126         192.168.200.126         192.168.200.131         192.168.200.41         192.168.200.46         192.168.200.41         192.168.200.46         192.168.200.61         192.168.200.61         192.168.200.71         192.168.200.76         192.168.200.76         192.168.200.76         192.168.200.91         192.168.200.91         192.168.200.91         192.168.200.91         192.168.200.91         192.168.200.91         192.168.200.91         192.168.200.91         192.168.200.91         192.168.200.91         192.168.200.101</td><td>192.168.200.95         192.168.200.100         192.168.200.110         192.168.200.110         192.168.200.110         192.168.200.110         192.168.200.120         192.168.200.120         192.168.200.120         192.168.200.130         192.168.200.130         192.168.200.400         192.168.200.400         192.168.200.400         192.168.200.50         192.168.200.55         192.168.200.60         192.168.200.70</td><td></td></td>   | 192.168.200.100         192.168.200.105         192.168.200.110         192.168.200.120         192.168.200.120         192.168.200.120         192.168.200.130         192.168.200.135         192.168.200.400         192.168.200.400         192.168.200.400         192.168.200.400         192.168.200.400         192.168.200.450         192.168.200.55         192.168.200.65         192.168.200.70         192.168.200.70         192.168.200.70         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.100         192.168.200.110         192.168.200.110  |  | 192.168.210.91         192.168.210.96         192.168.210.101         192.168.210.106         192.168.210.111         192.168.210.116         192.168.210.116         192.168.210.121         192.168.210.126         192.168.210.131         192.168.210.131         192.168.210.131         192.168.210.46         192.168.210.41         192.168.210.46         192.168.210.46         192.168.210.61         192.168.210.61         192.168.210.61         192.168.210.71         192.168.210.76         192.168.210.76         192.168.210.76         192.168.210.76         192.168.210.76         192.168.210.76         192.168.210.76         192.168.210.76         192.168.210.76         192.168.210.76         192.168.210.76         192.168.210.76         192.168.210.76         192.168.210.76         192.168.210.91         192.168.210.91         192.168.210.91         192.168.210.91         192.168.210.101         192.168.210.106          192.168.210.106 <td>192.168.21(         192.168.21(</td> <td>192.168.200.91         192.168.200.96         192.168.200.101         192.168.200.106         192.168.200.111         192.168.200.116         192.168.200.126         192.168.200.126         192.168.200.126         192.168.200.131         192.168.200.41         192.168.200.46         192.168.200.41         192.168.200.46         192.168.200.61         192.168.200.61         192.168.200.71         192.168.200.76         192.168.200.76         192.168.200.76         192.168.200.91         192.168.200.91         192.168.200.91         192.168.200.91         192.168.200.91         192.168.200.91         192.168.200.91         192.168.200.91         192.168.200.91         192.168.200.91         192.168.200.101</td> <td>192.168.200.95         192.168.200.100         192.168.200.110         192.168.200.110         192.168.200.110         192.168.200.110         192.168.200.120         192.168.200.120         192.168.200.120         192.168.200.130         192.168.200.130         192.168.200.400         192.168.200.400         192.168.200.400         192.168.200.50         192.168.200.55         192.168.200.60         192.168.200.70</td> <td></td>   | 192.168.21(          | 192.168.200.91         192.168.200.96         192.168.200.101         192.168.200.106         192.168.200.111         192.168.200.116         192.168.200.126         192.168.200.126         192.168.200.126         192.168.200.131         192.168.200.41         192.168.200.46         192.168.200.41         192.168.200.46         192.168.200.61         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| 192.168.200.120         192.168.200.135         192.168.200.130         192.168.200.135         192.168.200.40         192.168.200.40         192.168.200.40         192.168.200.40         192.168.200.50         192.168.200.50         192.168.200.60         192.168.200.70         192.168.200.70         192.168.200.70         192.168.200.70         192.168.200.70         192.168.200.70         192.168.200.70         192.168.200.70         192.168.200.70         192.168.200.70         192.168.200.70         192.168.200.70         192.168.200.70         192.168.200.70         192.168.200.70         192.168.200.70         192.168.200.70         192.168.200.110         192.168.200.110         192.168.200.110 | a blada addallad   | 192.168.210.101       192.168.210         192.168.210.106       192.168.210         192.168.210.111       192.168.210         192.168.210.116       192.168.210         192.168.210.116       192.168.210         192.168.210.116       192.168.210         192.168.210.126       192.168.210         192.168.210.126       192.168.210         192.168.210.126       192.168.210         192.168.210.36       192.168.210         192.168.210.41       192.168.210         192.168.210.41       192.168.210         192.168.210.41       192.168.210         192.168.210.41       192.168.210         192.168.210.45       192.168.210         192.168.210.46       192.168.210         192.168.210.41       192.168.210         192.168.210.45       192.168.210         192.168.210.51       192.168.210         192.168.210.61       192.168.210         192.168.210.76       192.168.210         192.168.210.76       192.168.210         192.168.210.76       192.168.210         192.168.210.76       192.168.210         192.168.210.76       192.168.210         192.168.210.76       192.168.210         192.168.210.76   | 192.168.200.96           192.168.200.101           192.168.200.106           192.168.200.111           192.168.200.116           192.168.200.116           192.168.200.126           192.168.200.126           192.168.200.126           192.168.200.131           192.168.200.131           192.168.200.41           192.168.200.46           192.168.200.41           192.168.200.51           192.168.200.51           192.168.200.61           192.168.200.61           192.168.200.61           192.168.200.71           192.168.200.76           192.168.200.81           192.168.200.91           192.168.200.91           192.168.200.91           192.168.200.101           192.168.200.111           192.168.200.111           192.168.200.111           192.168.200.111  | 192.168.200.100         192.168.200.110         192.168.200.115         192.168.200.120         192.168.200.120         192.168.200.120         192.168.200.130         192.168.200.130         192.168.200.130         192.168.200.400         192.168.200.50         192.168.200.55         192.168.200.55         192.168.200.70         192.168.200.70         192.168.200.70         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.105         192.168.200.115         192.168.200.115         192.168.200.115 |  | 192.168.210.91           192.168.210.96           192.168.210.101           192.168.210.106           192.168.210.116           192.168.210.116           192.168.210.116           192.168.210.121           192.168.210.126           192.168.210.131           192.168.210.131           192.168.210.46           192.168.210.46           192.168.210.46           192.168.210.61           192.168.210.61           192.168.210.61           192.168.210.61           192.168.210.71           192.168.210.61           192.168.210.61           192.168.210.61           192.168.210.61           192.168.210.61           192.168.210.71           192.168.210.61           192.168.210.71           192.168.210.71           192.168.210.71           192.168.210.81           192.168.210.11           192.168.210.11           192.168.210.11           192.168.210.111           192.168.210.111           192.168.210.111           192.168.210.111   | 192.168.21(          | 192.168.200.91         192.168.200.96         192.168.200.101         192.168.200.106         192.168.200.111         192.168.200.116         192.168.200.116         192.168.200.126         192.168.200.126         192.168.200.131         192.168.200.36         192.168.200.41         192.168.200.46         192.168.200.46         192.168.200.51         192.168.200.61         192.168.200.61         192.168.200.71         192.168.200.71         192.168.200.76         192.168.200.76         192.168.200.76         192.168.200.71         192.168.200.76         192.168.200.71         192.168.200.76         192.168.200.71         192.168.200.76         192.168.200.71         192.168.200.71         192.168.200.101         192.168.200.101         192.168.200.101         192.168.200.101         192.168.200.101 | 192.168.200.95         192.168.200.100         192.168.200.110         192.168.200.110         192.168.200.110         192.168.200.110         192.168.200.120         192.168.200.120         192.168.200.120         192.168.200.130         192.168.200.135         192.168.200.400         192.168.200.50         192.168.200.50         192.168.200.50         192.168.200.65         192.168.200.65         192.168.200.70         192.168.200.70         192.168.200.70         192.168.200.70         192.168.200.80         192.168.200.80         192.168.200.80         192.168.200.100         192.168.200.100         192.168.200.100         192.168.200.100         192.168.200.100         192.168.200.100         192.168.200.100  |  |
| 192.168.200.120         192.168.200.135         192.168.200.130         192.168.200.135         192.168.200.40         192.168.200.40         192.168.200.40         192.168.200.40         192.168.200.50         192.168.200.50         192.168.200.65         192.168.200.70         192.168.200.70         192.168.200.70         192.168.200.70         192.168.200.70         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75         192.168.200.75  | a biana mininala   | 192.168.210.101       192.168.210         192.168.210.106       192.168.210         192.168.210.111       192.168.210         192.168.210.116       192.168.210         192.168.210.116       192.168.210         192.168.210.116       192.168.210         192.168.210.126       192.168.210         192.168.210.126       192.168.210         192.168.210.131       192.168.210         192.168.210.36       192.168.210         192.168.210.36       192.168.210         192.168.210.41       192.168.210         192.168.210.41       192.168.210         192.168.210.41       192.168.210         192.168.210.45       192.168.210         192.168.210.45       192.168.210         192.168.210.51       192.168.210         192.168.210.51       192.168.210         192.168.210.61       192.168.210         192.168.210.71       192.168.210         192.168.210.76       192.168.210         192.168.210.76       192.168.210         192.168.210.76       192.168.210         192.168.210.76       192.168.210         192.168.210.76       192.168.210         192.168.210.77       192.168.210         192.168.210.77   | 192.168.200.96         192.168.200.101         192.168.200.106         192.168.200.111         192.168.200.116         192.168.200.116         192.168.200.126         192.168.200.126         192.168.200.131         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    192.168.200.400         192.168.200.400         192.168.200.450         192.168.200.55         192.168.200.650         192.168.200.700         192.168.200.700         192.168.200.700         192.168.200.700         192.168.200.750         192.168.200.750         192.168.200.750         192.168.200.750         192.168.200.750         192.168.200.750         192.168.200.750         192.168.200.750         192.168.200.750         192.168.200.950         192.168.200.100         192.168.200.100         192.168.200.110         192.168.200.110         192.168.200.110</td> <td></td> <td>192.168.210.91         192.168.210.96         192.168.210.101         192.168.210.106         192.168.210.111         192.168.210.116         192.168.210.116         192.168.210.121         192.168.210.126         192.168.210.131         192.168.210.131         192.168.210.131         192.168.210.46         192.168.210.41         192.168.210.46         192.168.210.46         192.168.210.61         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192.168.200.76         192.168.200.76         192.168.200.76         192.168.200.91         192.168.200.91         192.168.200.91         192.168.200.91         192.168.200.91         192.168.200.91         192.168.200.91         192.168.200.91         192.168.200.91         192.168.200.91         192.168.200.101</td><td>192.168.200.95         192.168.200.100         192.168.200.110         192.168.200.110         192.168.200.110         192.168.200.110         192.168.200.120         192.168.200.120         192.168.200.120         192.168.200.130         192.168.200.130         192.168.200.400         192.168.200.400         192.168.200.400         192.168.200.50         192.168.200.55         192.168.200.60         192.168.200.70</td><td></td></t<></td></td> | 192.168.200.100         192.168.200.105         192.168.200.110         192.168.200.120         192.168.200.120         192.168.200.120         192.168.200.130         192.168.200.135         192.168.200.400         192.168.200.400         192.168.200.400         192.168.200.400         192.168.200.400         192.168.200.450         192.168.200.55         192.168.200.650         192.168.200.700         192.168.200.700         192.168.200.700         192.168.200.700         192.168.200.750         192.168.200.750         192.168.200.750         192.168.200.750         192.168.200.750         192.168.200.750         192.168.200.750         192.168.200.750         192.168.200.750         192.168.200.950         192.168.200.100         192.168.200.100         192.168.200.110         192.168.200.110         192.168.200.110   |  | 192.168.210.91         192.168.210.96         192.168.210.101         192.168.210.106         192.168.210.111         192.168.210.116         192.168.210.116         192.168.210.121         192.168.210.126         192.168.210.131         192.168.210.131         192.168.210.131         192.168.210.46         192.168.210.41         192.168.210.46         192.168.210.46         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192.168.200.71         192.168.200.76         192.168.200.76         192.168.200.76         192.168.200.91         192.168.200.91         192.168.200.91         192.168.200.91         192.168.200.91         192.168.200.91         192.168.200.91         192.168.200.91         192.168.200.91         192.168.200.91         192.168.200.101</td><td>192.168.200.95         192.168.200.100         192.168.200.110         192.168.200.110         192.168.200.110         192.168.200.110         192.168.200.120         192.168.200.120         192.168.200.120         192.168.200.130         192.168.200.130         192.168.200.400         192.168.200.400         192.168.200.400         192.168.200.50         192.168.200.55         192.168.200.60         192.168.200.70</td><td></td></t<></td> | 192.168.21(       192.168.21( <t< td=""><td>192.168.200.91         192.168.200.96         192.168.200.101         192.168.200.106         192.168.200.111         192.168.200.116         192.168.200.126         192.168.200.126         192.168.200.126         192.168.200.131         192.168.200.41         192.168.200.46         192.168.200.41         192.168.200.46         192.168.200.61         192.168.200.61         192.168.200.71         192.168.200.76         192.168.200.76         192.168.200.76         192.168.200.91         192.168.200.91         192.168.200.91         192.168.200.91         192.168.200.91         192.168.200.91         192.168.200.91         192.168.200.91         192.168.200.91         192.168.200.91         192.168.200.101</td><td>192.168.200.95         192.168.200.100         192.168.200.110         192.168.200.110         192.168.200.110         192.168.200.110         192.168.200.120         192.168.200.120         192.168.200.120         192.168.200.130         192.168.200.130         192.168.200.400         192.168.200.400         192.168.200.400         192.168.200.50         192.168.200.55         192.168.200.60         192.168.200.70</td><td></td></t<> | 192.168.200.91         192.168.200.96         192.168.200.101         192.168.200.106         192.168.200.111         192.168.200.116         192.168.200.126         192.168.200.126         192.168.200.126         192.168.200.131         192.168.200.41         192.168.200.46         192.168.200.41         192.168.200.46         192.168.200.61         192.168.200.61         192.168.200.71         192.168.200.76         192.168.200.76         192.168.200.76         192.168.200.91         192.168.200.91         192.168.200.91         192.168.200.91         192.168.200.91         192.168.200.91         192.168.200.91         192.168.200.91         192.168.200.91         192.168.200.91         192.168.200.101   | 192.168.200.95         192.168.200.100         192.168.200.110         192.168.200.110         192.168.200.110         192.168.200.110         192.168.200.120         192.168.200.120         192.168.200.120         192.168.200.130         192.168.200.130         192.168.200.400         192.168.200.400         192.168.200.400         192.168.200.50         192.168.200.55         192.168.200.60         192.168.200.70 |  |

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| 192.168.210.51                     | 192.168.21                 |
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| 192.168.210.66                     | 192.168.21                 |
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| 192.168.210.81                     | 192.168.21                 |
| 192.168.210.86                     | 192.168.21                 |
| 192.168.210.91                     | 192.168.21                 |
| 192.168.210.96                     | 192.168.21                 |
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| 192.168.210.111                    | 192.168.21                 |
| 192.168.210.116                    | 192.168.21                 |
| <del>192.168.210.121</del>         | <del>192.168.21</del>      |
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| 192.168.210.131                    | 192.168.21                 |
| 192.168.210.36                     | 192.168.21                 |
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| 192.168.210.41                     | 192.168.21                 |
| 192.168.210.46                     | 192.168.21                 |
| 192.168.210.51                     | 192.168.21                 |
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| 192.168.210.81<br>192.168.210.86   | 192.168.21                 |
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| 192.168.210.111                    | 192.168.21                 |
| 192.168.210.116                    | 192.168.21                 |
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| 192.168.210.51                     | 192.168.21                 |
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| 192.168.210.116                    | 192.168.21                 |
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| 192.168.210.131                    | 192.168.21                 |
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| 192.168.210.46                     | 192.168.21                 |
| 192.168.210.51<br>192.168.210.56   | 192.168.210<br>192.168.210 |
| 192.168.210.56                     | 192.168.21                 |
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| 192.168.210.66                     | 192.168.21                 |
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| 192.168.210.96                     | 192.168.21                 |
| 192.168.210.101                    | 192.168.21                 |
|                                    | 192.168.21                 |
| 192.168.210.111<br>192.168.210.116 | 192.168.21                 |
| 192.168.210.116<br>192.168.210.121 | 192.168.210<br>192.168.210 |
|                                    | 102.100.21                 |
| 192.168.210.121                    | 192.168.21                 |







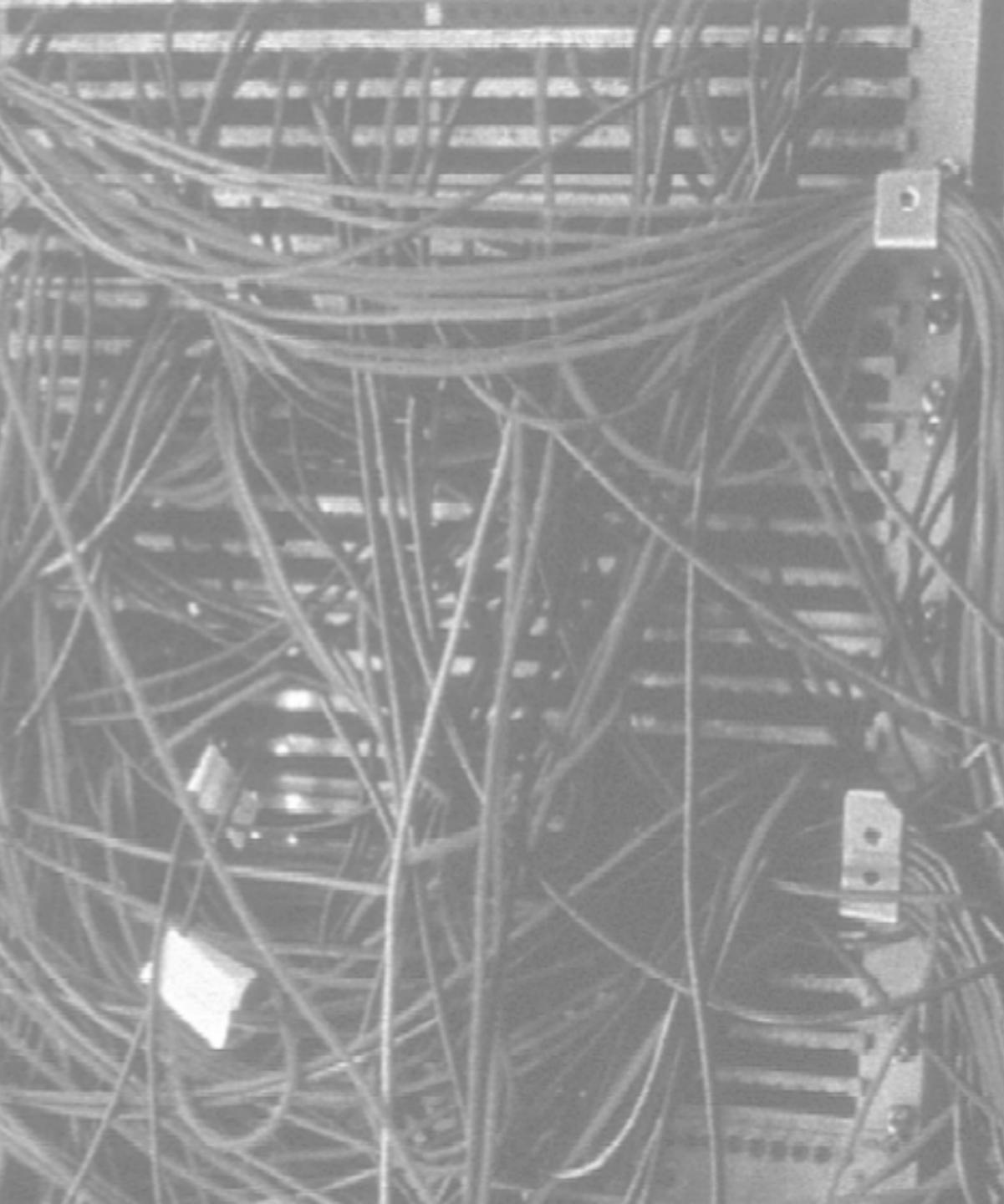
# Connection

Traditionally: cross-point routers

Various proprietary mechanisms SDN controlled IGMP-based AMWA NMOS IS-05 and IS-06

Levels of connection

- Device-device
- Source-destination
- Bundled connections



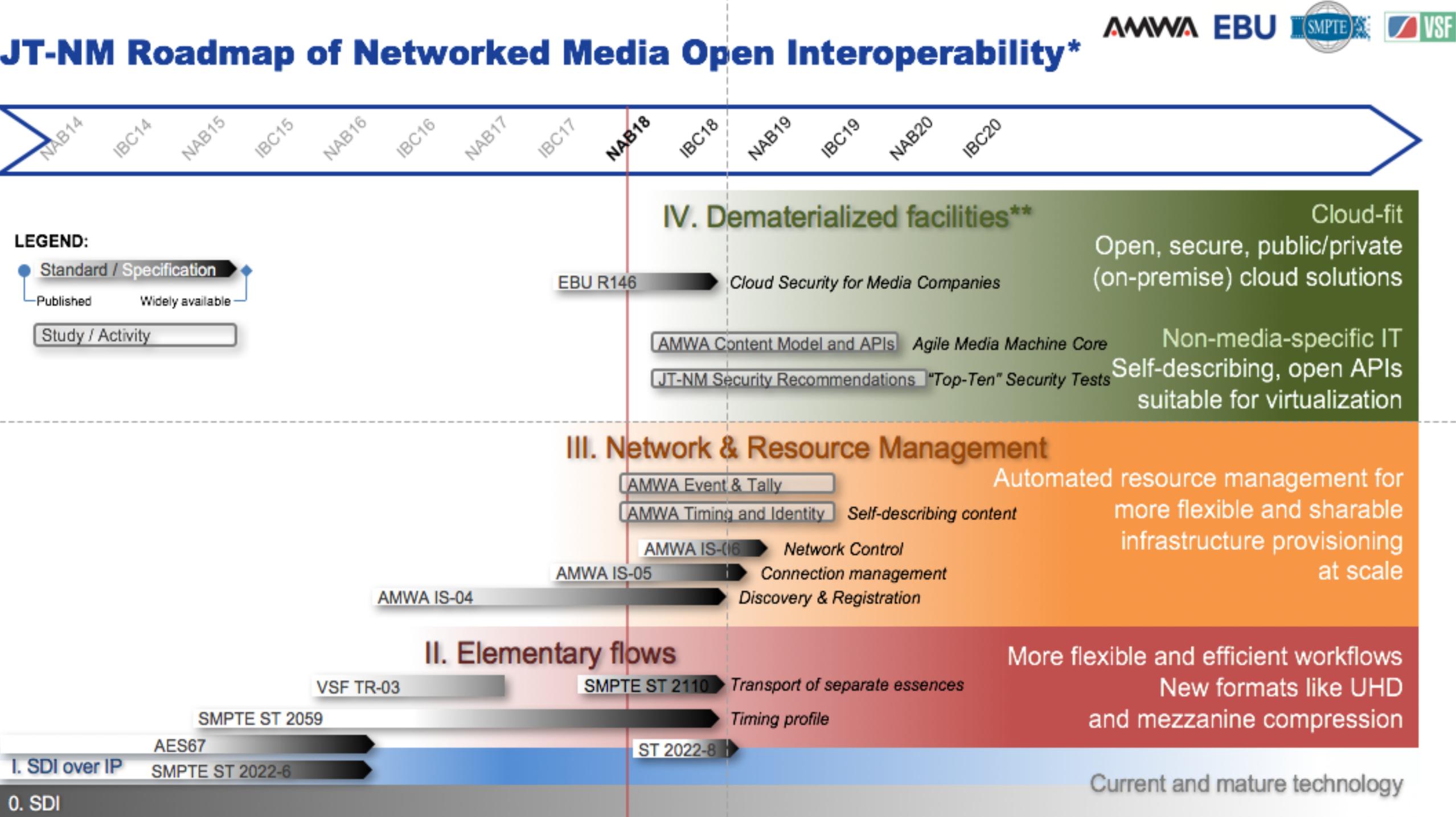
# Control

## Traditionally:

- Vendor-specific
- "Glue" controllers e.g. BNCS

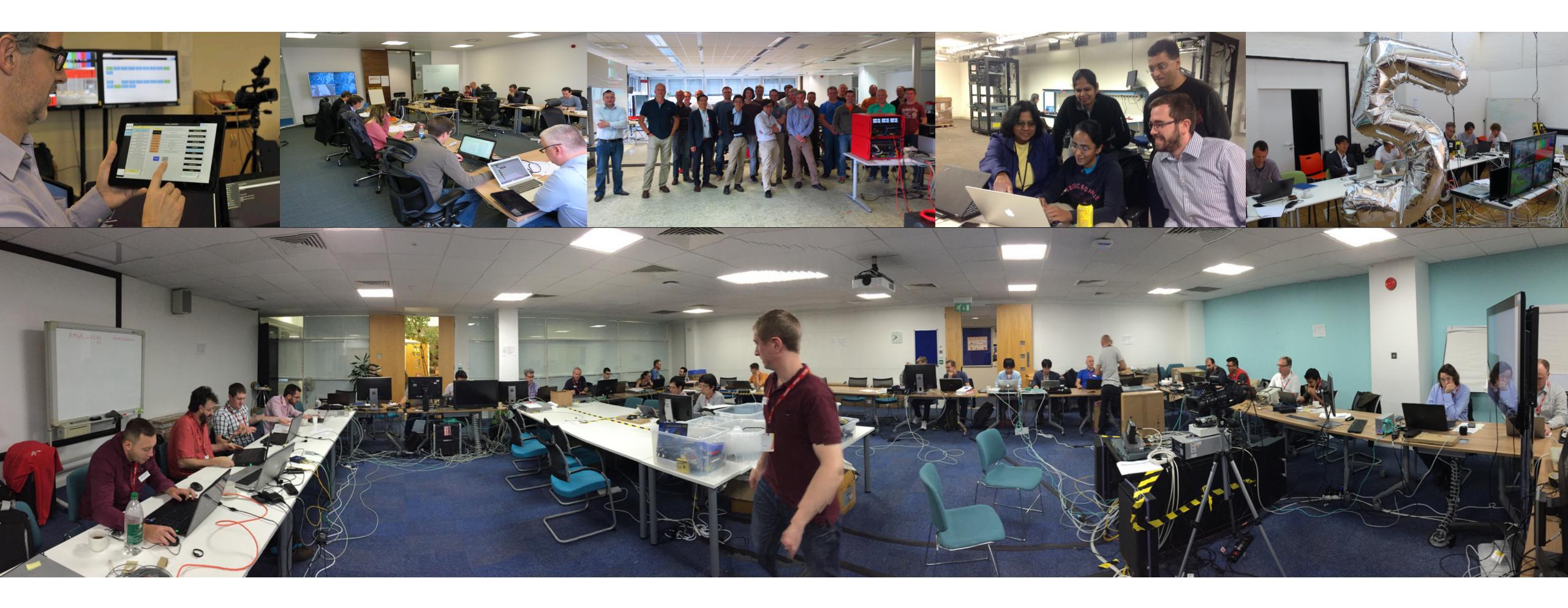
## SNMP MIB (IEC 62379) OCA/AES-70 Ember+ ST 2071 DDS NMOS





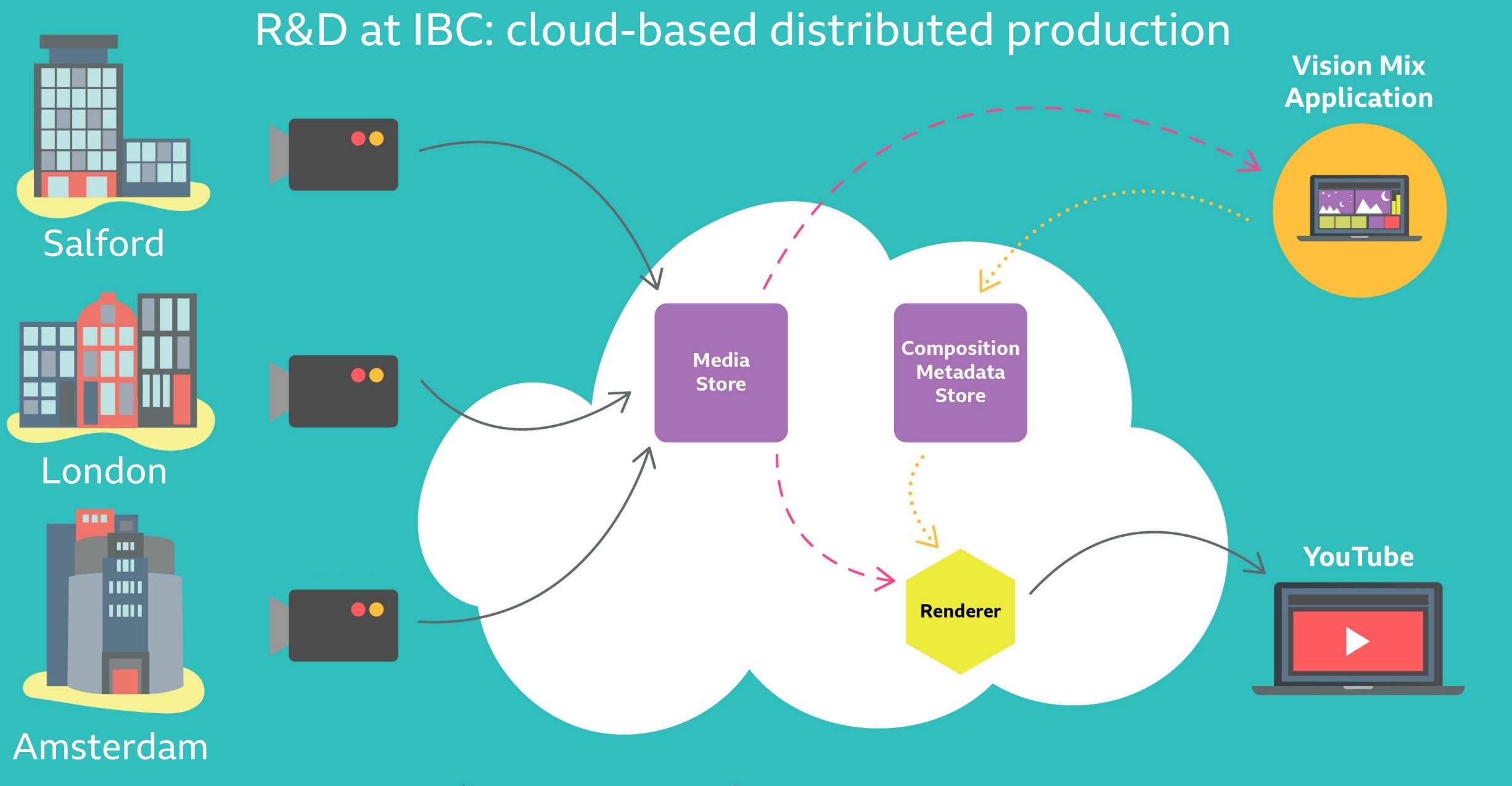


# **AMWA Networked Media Incubator**







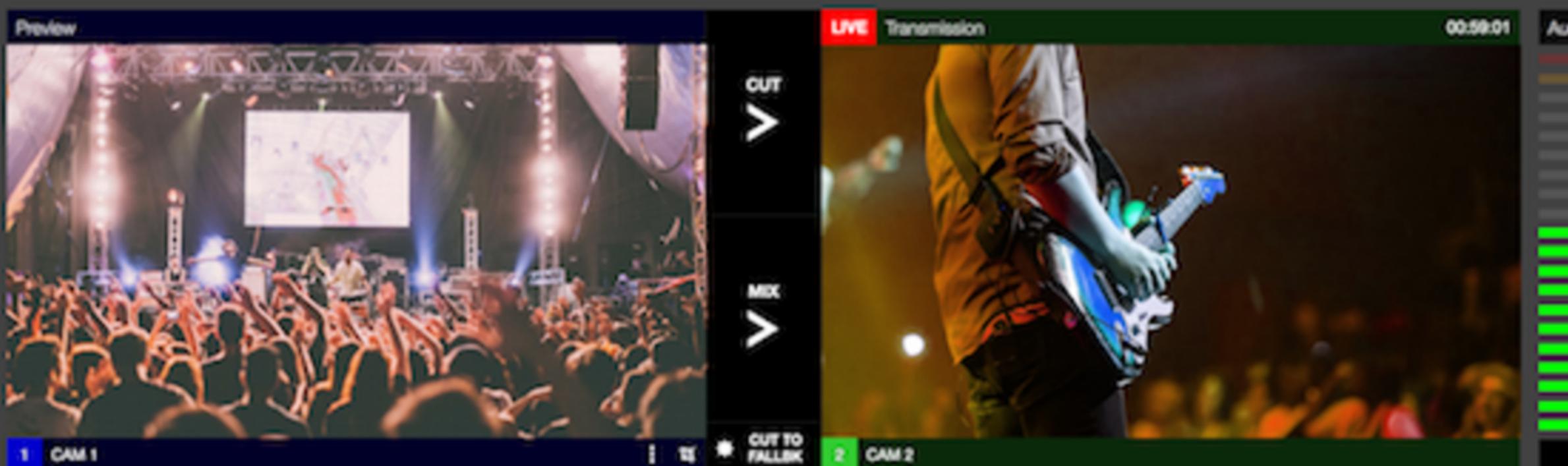


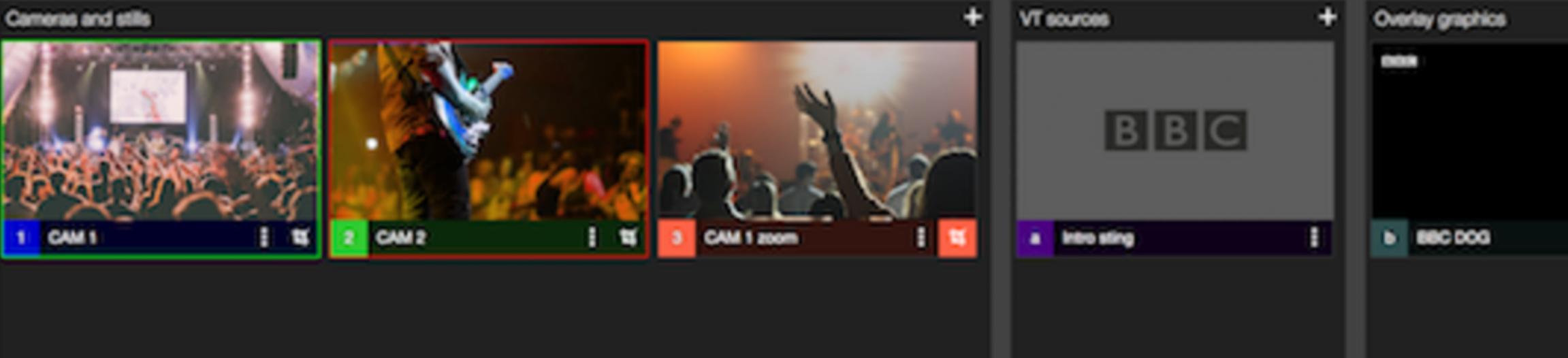
RTMP

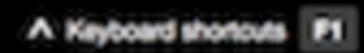


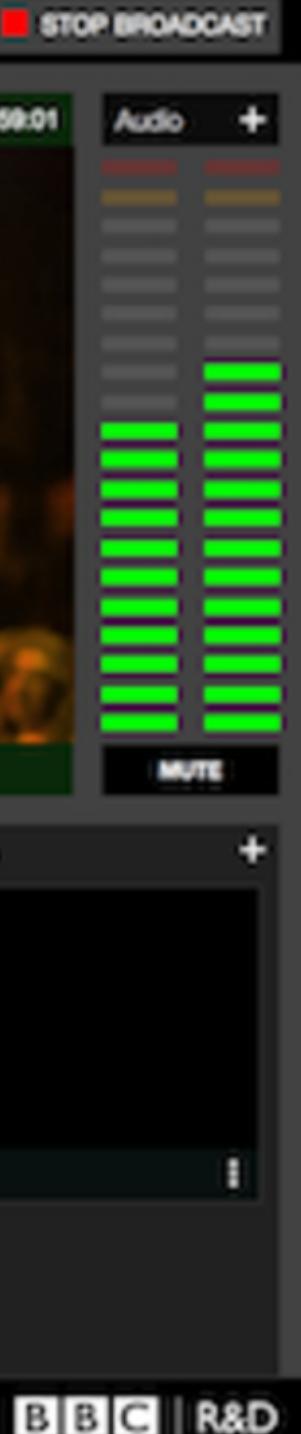
### SOMA MIF Mainstage 30/6 All changes saved

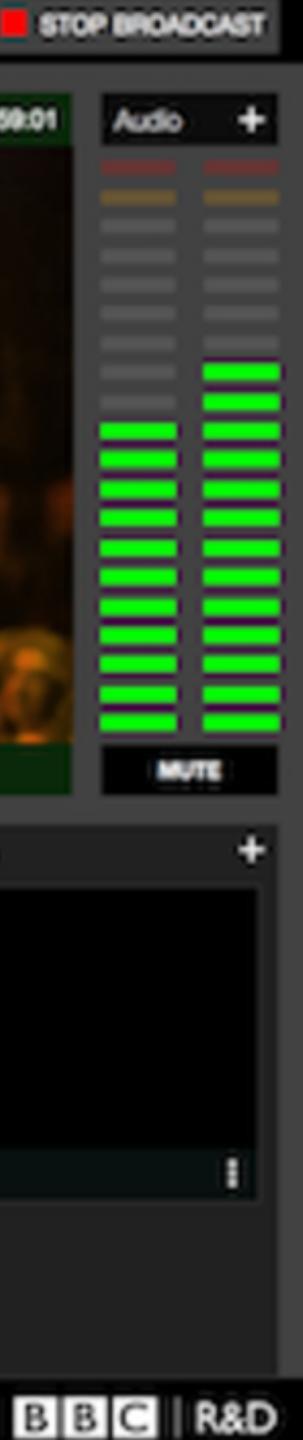


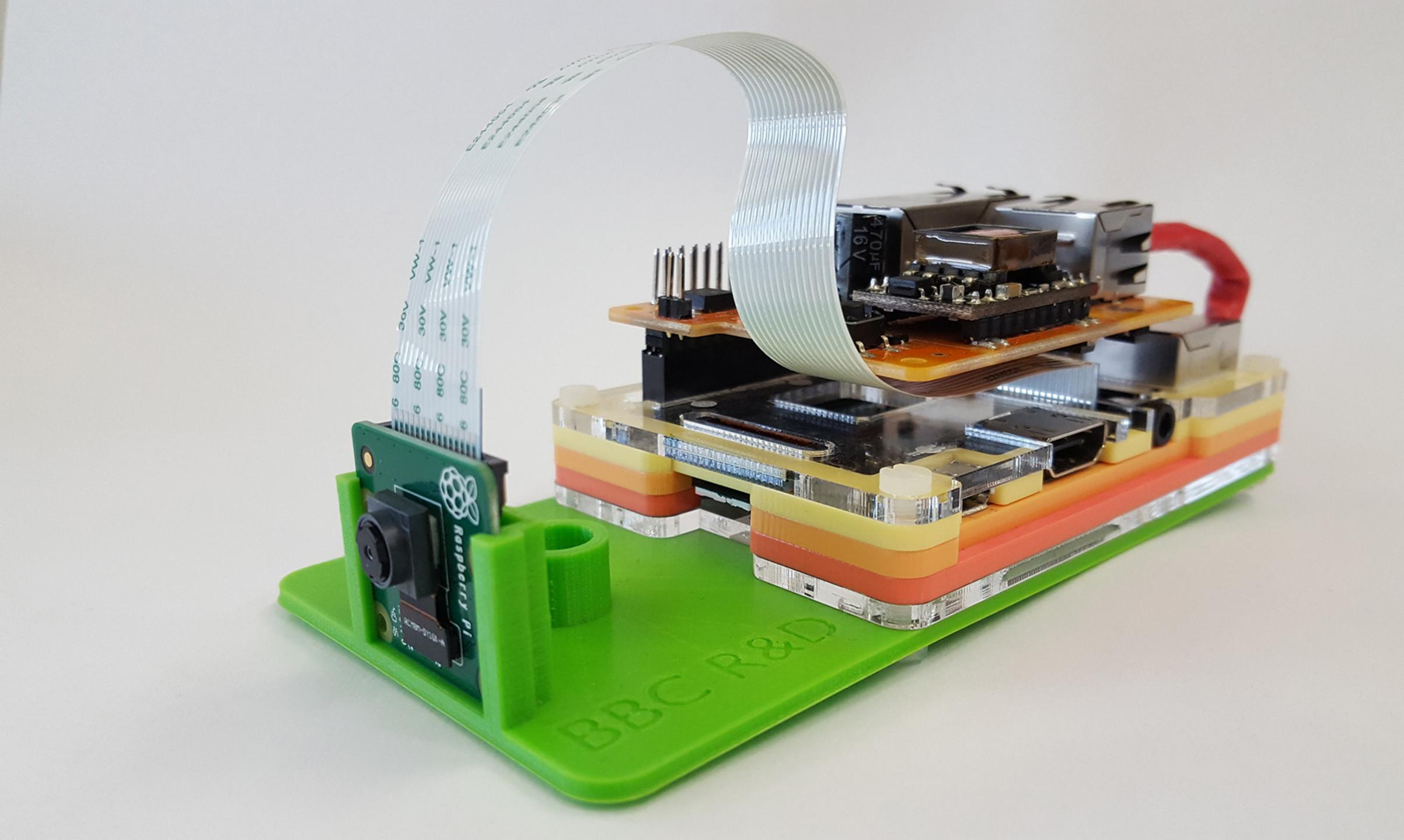




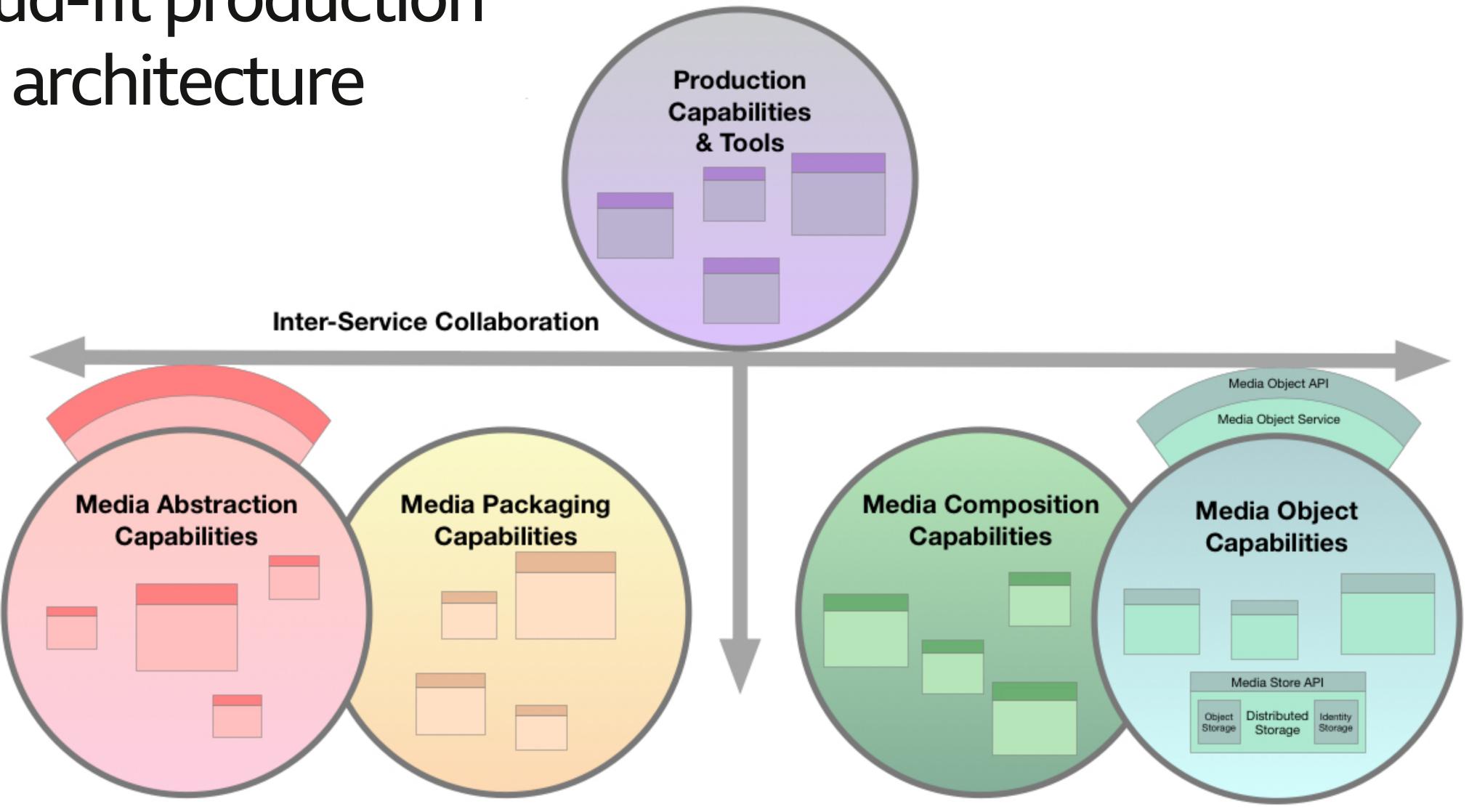








# "Cloud-fit production" architecture





www.bbc.co.uk /rd/projects/ip-studio

