ST 2110 Device Setup

Most 2110 Devices can be configured with the Tools given by their manufacturer. For example the "Blackmagic DeckLink IP/SDI HD" can be setup with the Blackmagic Desktop Video Setup:

🛄 Blackmagic Desktop	Blackmagic Desktop Video Setup				
Help					
Deskto	First DeckLink IP/SDI HD Video Output Video I	nput Setup	About	and the second s	gicdesign O
	Network				
	Protocol:				
		Static IP			•
	IP address:	192.168.11.94			
	Subnet mask:	255.255.255.0			
	Gateway:	192.168.11.1			2
	Primary DNS:	192.168.11.1			
	Secondary DNS:	192.168.11.174			
	2110 Multicast Output				
	Stream address:	239.0.0.1			
			Cancel	Save	$\Box \equiv$

For high quality and lag-free network operation, we recommend using high end network hardware (router, switch) as well as high speed ethernet cables (cat6+).

The specific network configuration will not be covered in this article, as there is too much diversity.

AJA 2110 Cards

{

PLAYDECK allows to assign a network configuration file, which will be loaded upon PLAYDECK start.

```
Structure of Configuration File (JSON)
```

```
"protocol":"2110",
"network2110":
```

```
{ // this part configures the parameters of the device itself, the
connectors (SFP) with IP configurations
        "ptpPreferredGMID": "00-00-00-00-00-00-00",
        "ptpDomain":0,
        "setup4k":"false",
        "multiSDP":"false",
        "audioCombine":"false",
        "rxMatchOverride":0,
        "sfps":
            // the configuration itself for each of the connectors
        ſ
            {
                 "designator":"sfp1",
                 "ipAddress":"192.16.45.8",
                "subnetMask":"255.255.0.0",
                "gateWay": "255.255.255.255",
                "enable":"true"
            },
            {
                "designator":"sfp2",
                 "ipAddress":"192.16.45.9",
                "subnetMask":"255.255.0.0",
                "gateWay": "255.255.255.255",
                "enable":"true"
            }
        1
    },
    "receiveVideo2110":
    [ // this part is to receive a video feed where you set the connector,
the source address
      // and its port for both the connectors.
        {
            "stream":"video1",
            . . .
        },
        {
            "stream":"video2",
            . . .
        }
    ],
    "receiveAudio2110":
    [ // this part is to receive an audio feed where you set the connector,
the source address
      // and its port for both the connectors.
        {
            "stream":"audio1",
            . . .
        },
        {
            "stream":"audio2",
            . . .
        }
```

```
],
    "receiveAnc2110":
    [ // this part is to receive the ancillary data where you set the
connector, the source address
       // and its port for both the connectors.
        {
             "stream":"anc1",
             . . .
        },
        {
             "stream":"anc2",
             . . .
        }
    ],
    "transmitVideo2110":
    [ // this part is to send a video signal where you set the connector,
the destination address
       // and its port for both the connectors.
        {
             "stream":"video3",
             . . .
        },
        {
             "stream":"video4",
             . . .
        }
    ],
    "transmitAudio2110":
    [ // this part is to send an audio signal where you set the connector,
the destination address
       // and its port for both the connectors.
        {
             "stream":"audio3",
             . . .
        },
        {
             "stream":"audio4",
             . . . .
        }
    ],
    "transmitAnc2110":
    [ // this part is to send ancilary data where you set the connector, the
destination address
       // and its port for both the connectors.
        {
             "stream":"anc3",
             . . .
        },
        {
             "stream":"anc4",
             . . .
```

```
}
]
}
```

Sample Configuration File

You can download this sample JSON File.

Assign Configuration to PLAYDECK

The Configuration will be loaded while starting PLAYDECK and will be assigned to all Inputs and Outputs (if assigned).

For INPUTS, edit the full path to your JSON File in this Registry Key: HKEY_CURRENT_USER\Software\Medialooks\MFormats\MFLive\AJA2\aja.ip_config

For OUTPUTS, edit the full path to your JSON File in this Registry Key: HKEY_CURRENT_USER\Software\Medialooks\MFormats\MFRenderer\AJA2\aja.ip_config

Deltacst 2110 Cards

PLAYDECK allows to assign a network configuration file, which will be loaded upon PLAYDECK start.

Structure of Configuration File (JSON)

```
{
    "tx2110Setup":
    {
        "ethPort":0,
        "DHCP":"true",
        "ipAddress":"127.0.0.1",
        "subnetMask":"255.255.255.0",
        "gateWay":"127.0.0.1",
        "ipAddressMulticast":"239.1.32.32",
        "udpPort":16
    },
    "rx2110Setup":
    {
        "ethPort":0,
        "DHCP":"true",
        "ipAddress":"127.0.0.1",
        "subnetMask": "255.255.255.0",
        "gateWay":"127.0.0.1",
        "ipAddressMulticast":"239.1.32.32",
        "udpPort":16
    }
}
```

Sample Configuration File

You can download this sample JSON File.

Assign Configuration to PLAYDECK

The Configuration will be loaded while starting PLAYDECK and will be assigned to all Inputs and Outputs (if assigned).

For INPUTS, edit the full path to your JSON File in this Registry Key: HKEY_CURRENT_USER\Software\Medialooks\MFormats\MFLive\MFDeviceDC\dc.ip_config

For OUTPUTS, edit the full path to your JSON File in this Registry Key: HKEY_CURRENT_USER\Software\Medialooks\MFormats\MFRenderer\DC\dc.ip_config