

gRPC API

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:

1. ListUnits .
:

```
{
  "method": "axxonsoft.bl.config.ConfigurationService.ListUnits",
  "data": {
    "unit_uids": ["hosts/D-COMPUTER/AVDetector.2"]
  }
}
```

2. . .
:

```
{
  "units": [
    {
      "uid": "hosts/D-SHKIRDOV1/AVDetector.2",
      "display_id": "2",
      "type": "AVDetector",
      "display_name": " (VT)",
      "access_point": "hosts/D-SHKIRDOV1/AVDetector.2/EventSupplier",
      "properties": [
        {
          "id": "display_name",
          "name": "",
          "description": " .",
          "category": "",
          "type": "string",
          "readonly": false,
          "internal": false,
          "value_string": " (VT)"
        },
        {
          "id": "enabled",
          "name": "",
          "description": " .",
          "category": "",
          "type": "bool",
          "readonly": false,
          "internal": false,
          "value_bool": true
        },
        {
          "id": "detector",
          "name": "",
          "description": " .",
          "category": "",
          "type": "string",
          "readonly": true,
          "internal": false,
          "display_value": " (VT)",
          "value_string": "LprDetector_Vit"
        }
      ]
    }
  ]
}
```

```

},
{
  "id": "streaming_id",
  "name": "",
  "description": " ",
  "category": "&2. ",
  "type": "string",
  "readonly": false,
  "internal": false,
  "enum_constraint": {
    "items": [
      {
        "name": "",
        "traits": [],
        "properties": [],
        "value_string": "hosts/D-SHKIRDOV1/DeviceIpint.5/SourceEndpoint.video:0:"
      },
      {
        "name": "",
        "traits": [],
        "properties": [],
        "value_string": "hosts/D-SHKIRDOV1/DeviceIpint.5/SourceEndpoint.video:0:"
      }
    ]
  },
  "value_string": "hosts/D-SHKIRDOV1/DeviceIpint.5/SourceEndpoint.video:0:1"
},
{
  "id": "EnableRealtimeRecognition",
  "name": " ",
  "description": " ",
  "category": "&2. ",
  "type": "bool",
  "readonly": false,
  "internal": false,
  "value_bool": false
},
{
  "id": "EnableRecordingObjectsTracking",
  "name": " ",
  "description": " . ",
  "category": "&2. ",
  "type": "bool",
  "readonly": false,
  "internal": false,
  "value_bool": true
},
{
  "id": "period",
  "name": "",
  "description": " , . \"0\" .",
  "category": "",
  "type": "int32",
  "readonly": false,
  "internal": false,
  "range_constraint": {
    "min_int": 0,
    "max_int": 65535
  },
  "value_int32": 0
},
{
  "id": "onlyKeyFrames",
  "name": " ",
  "description": " .",
  "category": "",
  "type": "bool",
  "readonly": false,
  "internal": false,

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```

        "value_bool": false
    },
    {
        "id": "Extra angle analyse",
        "name": " ",
        "description": " .",
        "category": "",
        "type": "bool",
        "readonly": false,
        "internal": false,
        "value_bool": false
    },
    {
        "id": "Extra ranges analyse",
        "name": " ",
        "description": " , .",
        "category": "",
        "type": "bool",
        "readonly": false,
        "internal": false,
        "value_bool": false
    },
    {
        "id": "FrameScale",
        "name": " ",
        "description": " , .",
        "category": "",
        "type": "int32",
        "readonly": false,
        "internal": false,
        "range_constraint": {
            "min_int": 640,
            "max_int": 10000,
            "default_int": 1920
        },
        "value_int32": 1920
    },
    {
        "id": "Precise analyse",
        "name": " ",
        "description": " (, , ). 20-30 %.",
        "category": "",
        "type": "bool",
        "readonly": false,
        "internal": false,
        "value_bool": false
    },
    {
        "id": "deviceType",
        "name": " ",
        "description": " .",
        "category": "",
        "type": "string",
        "readonly": false,
        "internal": false,
        "enum_constraint": {
            "items": [
                {
                    "name": "CPU",
                    "traits": [],
                    "properties": [],
                    "value_string": "CPU"
                },
                {
                    "name": "Intel GPU",
                    "traits": [],
                    "properties": [],
                    "value_string": "IntelGPU"
                },
                {
                    "name": "Intel NCS",

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        "traits": [],
        "properties": [],
        "value_string": "IntelNCS"
    }
},
    "default_string": "CPU"
},
"value_string": "CPU"
},
{
    "id": "directionDetectionAlg",
    "name": "        ",
    "description": "        .",
    "category": "",
    "type": "string",
    "readonly": false,
    "internal": false,
    "enum_constraint": {
        "items": [
            {
                "name": "        ",
                "traits": [],
                "properties": [],
                "value_string": "ByCooridnates"
            },
            {
                "name": "        ",
                "traits": [],
                "properties": [],
                "value_string": "ByScaleChange"
            }
        ],
        "default_string": "ByCooridnates"
    },
    "value_string": "ByCooridnates"
},
{
    "id": "dynamicEnable",
    "name": "VodiCTL_VPW_DYNAMIC_ENABLE",
    "description": "VodiCTL_VPW_DYNAMIC_ENABLE",
    "category": "",
    "type": "bool",
    "readonly": false,
    "internal": false,
    "value_bool": true
},
{
    "id": "dynamicOutputTimeout",
    "name": "VodiCTL_VPW_DYNAMIC_OUTPUT_TIMEOUT",
    "description": "VodiCTL_VPW_DYNAMIC_OUTPUT_TIMEOUT",
    "category": "",
    "type": "double",
    "readonly": false,
    "internal": false,
    "range_constraint": {
        "min_double": 0,
        "max_double": 3600,
        "default_double": 1
    },
    "value_double": 1
},
{
    "id": "dynamicWithDuplicate",
    "name": "VodiCTL_VPW_DYNAMIC_WITH_DUPLICATE",
    "description": "VodiCTL_VPW_DYNAMIC_WITH_DUPLICATE",
    "category": "",
    "type": "bool",
    "readonly": false,
    "internal": false,
    "value_bool": true
},

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{
  "id": "forceReportTimeout",
  "name": "",
  "description": " ",
  "category": "",
  "type": "int32",
  "readonly": false,
  "internal": false,
  "range_constraint": {
    "min_int": 0,
    "max_int": 3600,
    "default_int": 0
  },
  "value_int32": 0
},
{
  "id": "imageBlur",
  "name": "VodiCTL_VPW_IMAGE_BLUR",
  "description": "VodiCTL_VPW_IMAGE_BLUR",
  "category": "",
  "type": "int32",
  "readonly": false,
  "internal": false,
  "range_constraint": {
    "min_int": 0,
    "max_int": 100000,
    "default_int": 13
  },
  "value_int32": 13
},
{
  "id": "imageThreshold",
  "name": " ",
  "description": " ",
  "category": "",
  "type": "int32",
  "readonly": false,
  "internal": false,
  "range_constraint": {
    "min_int": 0,
    "max_int": 100,
    "default_int": 40
  },
  "value_int32": 40
},
{
  "id": "licenseType",
  "name": " ",
  "description": " , .",
  "category": "",
  "type": "string",
  "readonly": false,
  "internal": false,
  "enum_constraint": {
    "items": [
      {
        "name": " ",
        "traits": [],
        "properties": [],
        "value_string": "archivesearch"
      },
      {
        "name": " (25 FPS 6 FPS)",
        "traits": [],
        "properties": [],
        "value_string": "normal"
      },
      {
        "name": " (25 FPS)",
        "traits": [],
        "properties": [],

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        "value_string": "fast"
    },
    {
        "name": "    (6 FPS)",
        "traits": [],
        "properties": [],
        "value_string": "slow"
    }
],
"default_string": "archivesearch"
},
"value_string": "archivesearch"
},
{
    "id": "logSettings",
    "name": "VodiCTL_VPW_LOG_SETTINGS",
    "description": "VodiCTL_VPW_LOG_SETTINGS",
    "category": "",
    "type": "bool",
    "readonly": false,
    "internal": false,
    "value_bool": false
},
{
    "id": "maxPlateWidth",
    "name": "    ,    %",
    "description": "    .",
    "category": "",
    "type": "int32",
    "readonly": false,
    "internal": false,
    "range_constraint": {
        "min_int": 0,
        "max_int": 100,
        "default_int": 20
    },
    "value_int32": 20
},
{
    "id": "minPlateWidth",
    "name": "    ,    %",
    "description": "    .",
    "category": "",
    "type": "int32",
    "readonly": false,
    "internal": false,
    "range_constraint": {
        "min_int": 0,
        "max_int": 100,
        "default_int": 5
    },
    "value_int32": 5
},
{
    "id": "outputFramecount",
    "name": "    ",
    "description": "    ,    .",
    "category": "",
    "type": "int32",
    "readonly": false,
    "internal": false,
    "range_constraint": {
        "min_int": 1,
        "max_int": 20,
        "default_int": 6
    },
    "value_int32": 6
},
{
    "id": "plateCandsMethod",
    "name": "    ",

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        "description": "    .",
        "category": "",
        "type": "string",
        "readonly": false,
        "internal": false,
        "enum_constraint": {
            "items": [
                {
                    "name": " ()",
                    "traits": [],
                    "properties": [],
                    "value_string": "platecandsByMorph"
                },
                {
                    "name": " ()",
                    "traits": [],
                    "properties": [],
                    "value_string": "platecandsByDNN"
                }
            ],
            "default_string": "platecandsByMorph"
        },
        "value_string": "platecandsByMorph"
    },
    {
        "id": "plateDisplayQuality",
        "name": " ",
        "description": " % .",
        "category": "",
        "type": "int32",
        "readonly": false,
        "internal": false,
        "range_constraint": {
            "min_int": 0,
            "max_int": 100,
            "default_int": 0
        },
        "value_int32": 0
    },
    {
        "id": "plateFilterRodropfactor",
        "name": "VodiCTL_VPW_PLATE_FILTER_RODROPFACOR",
        "description": "VodiCTL_VPW_PLATE_FILTER_RODROPFACOR",
        "category": "",
        "type": "int32",
        "readonly": false,
        "internal": false,
        "range_constraint": {
            "min_int": 0,
            "max_int": 100000,
            "default_int": 0
        },
        "value_int32": 0
    },
    {
        "id": "plateFilterRofactor",
        "name": "VodiCTL_VPW_PLATE_FILTER_ROFACTOR",
        "description": "VodiCTL_VPW_PLATE_FILTER_ROFACTOR",
        "category": "",
        "type": "int32",
        "readonly": false,
        "internal": false,
        "range_constraint": {
            "min_int": 0,
            "max_int": 100000,
            "default_int": 95
        },
        "value_int32": 95
    },
    {
        "id": "plateFilterSymcount",

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```

        "name": "VodiCTL_VPW_PLATE_FILTER_SYMCOUNT",
        "description": "VodiCTL_VPW_PLATE_FILTER_SYMCOUNT",
        "category": "",
        "type": "int32",
        "readonly": false,
        "internal": false,
        "range_constraint": {
            "min_int": 0,
            "max_int": 100000,
            "default_int": 0
        },
        "value_int32": 0
    },
    {
        "id": "plateProbMin",
        "name": " ",
        "description": " % , .",
        "category": "",
        "type": "int32",
        "readonly": false,
        "internal": false,
        "range_constraint": {
            "min_int": 0,
            "max_int": 100,
            "default_int": 40
        },
        "value_int32": 40
    },
    {
        "id": "camera_ref",
        "name": "",
        "description": "",
        "category": "",
        "type": "string",
        "readonly": false,
        "internal": false,
        "value_string": "hosts/D-SHKIRD0V1/DeviceIpint.5/SourceEndpoint.video:0:0"
    }
],
"units": [
    {
        "uid": "hosts/D-SHKIRD0V1/AVDetector.2/VisualElement.19aa889c-a00b-470c-9d7f-765fbc49e5c2",
        "display_id": "19aa889c-a00b-470c-9d7f-765fbc49e5c2",
        "type": "VisualElement",
        "display_name": " ()",
        "access_point": "",
        "properties": [
            {
                "id": "rectangle",
                "name": " ()",
                "description": " , .",
                "category": "",
                "type": "Rectangle",
                "readonly": false,
                "internal": false,
                "value_rectangle": {
                    "x": 0.01,
                    "y": 0.01,
                    "w": 0.98,
                    "h": 0.98,
                    "index": 0
                }
            },
            {
                "id": "element_type",
                "name": "",
                "description": "",
                "category": "",
                "type": "string",
                "readonly": true,

```

```

        "internal": false,
        "value_string": "cropRect"
    },
    {
        "id": "element_index",
        "name": "",
        "description": "",
        "category": "",
        "type": "int32",
        "readonly": true,
        "internal": false,
        "value_int32": 0
    }
],
"traits": [],
"units": [],
"factory": [],
"destruction_args": [],
"discoverable": false,
"status": "UNIT_STATUS_ACTIVE",
"stripped": false,
"opaque_params": [],
"assigned_templates": [],
"has_unapplied_templates": false
}
],
"destruction_args": [],
"discoverable": false,
"status": "UNIT_STATUS_ACTIVE",
"stripped": false,
"opaque_params": [
    {
        "id": "Guid",
        "name": "",
        "description": "",
        "category": "",
        "type": "string",
        "readonly": false,
        "internal": false,
        "value_string": "9b9f5bd7-8d31-4ce6-8f78-fb95276f5b0a"
    }
],
"assigned_templates": [],
"has_unapplied_templates": false
}
],
"unreachable_objects": [],
"not_found_objects": [],
"more_data": false
}

```

:

1. .
,"".

```
{
    "id": "plateProbMin",
    "name": " ",
    "description": " % , .",
    "category": "",
    "type": "int32",
    "readonly": false,
    "internal": false,
    "range_constraint": {
        "min_int": 0,
        "max_int": 100,
        "default_int": 40
    },
    "value_int32": 40
}
```

- **id** ;
- **value** .



value .
 , "value_int32": 40.

- "value_int32" ;
- "value_string" ;
- "value_bool" , True False.



, .

2. .
 ;

```
{
    "method": "axxonsoft.bl.config.ConfigurationService.ChangeConfig",
    "data": {
        "changed": [
            {
                "uid": "hosts/D-COMPUTER/AVDetector.2",
                "type": "AVDetector",
                "properties": [
                    {
                        "id": "plateProbMin",
                        "value_int32": 100
                    }
                ]
            }
        ]
    }
}
```

:

1. , " 0".

```

"units": [
  {
    "uid": "hosts/D-COMPUTER/AVDetector.2/VisualElement.19aa889c-a00b-470c-9d7f-765fbc49e5c2",
    "display_id": "19aa889c-a00b-470c-9d7f-765fbc49e5c2",
    "type": "VisualElement",
    "display_name": "()",
    "access_point": "",
    "properties": [
      {
        "id": "rectangle",
        "name": "()",
        "description": " , .",
        "category": "",
        "type": "Rectangle",
        "readonly": false,
        "internal": false,
        "value_rectangle": {
          "x": 0.01,
          "y": 0.01,
          "w": 0.98,
          "h": 0.98,
          "index": 0
        }
      },
      {
        "id": "element_type",
        "name": "",
        "description": "",
        "category": "",
        "type": "string",
        "readonly": true,
        "internal": false,
        "value_string": "cropRect"
      },
      {
        "id": "element_index",
        "name": "",
        "description": "",
        "category": "",
        "type": "int32",
        "readonly": true,
        "internal": false,
        "value_int32": 0
      }
    ],
    "traits": [],
    "units": [],
    "factory": [],
    "destruction_args": [],
    "discoverable": false,
    "status": "UNIT_STATUS_ACTIVE",
    "stripped": false,
    "opaque_params": [],
    "assigned_templates": [],
    "has_unapplied_templates": false
  }
],

```

- uid ;
- type ;
- id ;
- value .



```
value .  
,"value_int32": 40.  
    ◦ "value_int32" ;  
    ◦ "value_string" ;  
    ◦ "value_bool" , True False.
```



```
, .
```

2. .
;

```
{  
  "method": "axxonsoft.bl.config.ConfigurationService.ChangeConfig",  
  "data": {  
    "changed": [  
      {  
        "uid": "hosts/D-COMPUTER/AVDetector.2/VisualElement.19aa889c-a00b-470c-9d7f-  
765fbc49e5c2",  
        "type": "VisualElement",  
        "properties": [  
          {  
            "id": "rectangle",  
            "value_rectangle": {  
              "x": 0.21,  
              "y": 0.41,  
              "w": 0.58,  
              "h": 0.88,  
              "index": 0  
            }  
          }  
        ]  
      }  
    ]  
  }  
}
```