

## 抓包整理

sprint 问 msg\_method 1

3D回复

```
"header": {
  "msg_method": 1,
  "msg_sn": 16,
  "msg_type": 2,
  "version": 1
},
"payload": {
  "application": "ProJet Service",
  "conn_modes": [{
    "conn_type": 1,
    "port": 30304
  }],
  "ctrl_conn_available": 127,
  "ctrl_conn_used": 1,
  "device_name": "PROJET2500",
  "hw_id": "00-04-5f-b6-57-72",
  "model_id": 20000,
  "model_name": "ProJet MJP 2500w",
  "submodel_id": 123,
  "version": "1.4.10270"
}
```

sprint问 20031

3D回复

```
"header": {
  "msg_method": 20031,
  "msg_sn": 6,
  "msg_type": 2,
  "version": 1
},
"payload": {
  "status": 0
}
```

sprint问10003

3D回复

```
"header": {
  "msg_method": 10003,
  "msg_sn": 7,
  "msg_type": 2,
  "version": 1
},
"payload": {
```

```

    "control_code_version": "1.4.10270",
    "mac_address": "00:04:5F:B6:57:71",
    "model_id": 20000,
    "model_name": "ProJet MJP 2500w",
    "print_engine_sn": "30101318309",
    "print_engine_version": "02.06.48",
    "printer_name": "PROJET2500",
    "printhead_sn": ["AZ46G006N"],
    "release_date": 1531764431,
    "release_version": "2.0.7",
    "slicer_version": "1.0.0.20180221",
    "submodel_id": 123,
    "ui_version": "3.019"
}

```

sprint问 1, 3D回复如上

sprint问20031, 3D回复如上

sprint问10003, 3D回复如上

sprint问10001, 3D回复

```

"header": {
  "msg_method": 10001,
  "msg_sn": 6,
  "msg_type": 2,
  "version": 1
},
"payload": {
  "system_state": 4
}

```

sprint问 1, 3D回复如上

sprint问 10062 (id = 0), 3D回复

```

"header": {
  "msg_method": 10062,
  "msg_sn": 8,
  "msg_type": 2,
  "version": 1
},
"payload": {
  "batch_code": "SW171810F",
  "capacity": 1300,
  "color_code": 2,
  "consumed": 763,
  "expiration": 1673733600,
  "id": 0,
  "level": 41,
  "manifold_batch_code": "SW",
  "material_code": 201,
  "material_name": "VisiJet M2 SUW",
  "material_type": 1,
  "mco_required": false,

```

```

    "minimum_level": 0,
    "order_number": "24180-915",
    "pump_strokes": 27,
    "quick_mco_avail": false,
    "specific_gravity": 0.857,
    "status": [0],
    "status_expiry": 0,
    "uid": "E0040100A4DC427A",
    "volume": 1516
}

```

sprint问10062 (id = 1) 3D回复 (两次的回复类容不一样)

```

"header": {
  "msg_method": 10062,
  "msg_sn": 9,
  "msg_type": 2,
  "version": 1
},
"payload": {
  "batch_code": "",
  "capacity": 0,
  "color_code": 0,
  "consumed": 0,
  "expiration": 0,
  "id": 1,
  "level": 0,
  "manifold_batch_code": "SW",
  "material_code": 0,
  "material_name": "",
  "material_type": 0,
  "mco_required": false,
  "minimum_level": 0,
  "order_number": "",
  "pump_strokes": 0,
  "quick_mco_avail": false,
  "specific_gravity": 0,
  "status": [2],
  "status_expiry": 0,
  "uid": "",
  "volume": 0
}

```

又问10062 (id = 2), 回复又不一样 (连续三次问10062, 三次回复都不一样)

回复如下

```

"header": {
  "msg_method": 10062,
  "msg_sn": 10,
  "msg_type": 2,
  "version": 1
},
"payload": {
  "batch_code": "PW170910B",

```

```

    "capacity": 1170,
    "color_code": 17,
    "consumed": 230,
    "expiration": 1672956000,
    "id": 2,
    "level": 80,
    "manifold_batch_code": "PW",
    "material_code": 205,
    "material_name": "VisiJet M2 CAST",
    "material_type": 5,
    "mco_required": false,
    "minimum_level": 0,
    "order_number": "24215-915",
    "pump_strokes": 9,
    "quick_mco_avail": false,
    "specific_gravity": 0.773,
    "status": [0],
    "status_expiry": 0,
    "uid": "E0040100A4DBB0F7",
    "volume": 1513
  }

```

又问10062 (id = 3) 回复如下 (连续第四次问了, 根据询问的Id不同 (0-3) , 作出的回复也不同)

3D回复

```

  "header": {
    "msg_method": 10062,
    "msg_sn": 11,
    "msg_type": 2,
    "version": 1
  },
  "payload": {
    "batch_code": "",
    "capacity": 0,
    "color_code": 0,
    "consumed": 0,
    "expiration": 0,
    "id": 3,
    "level": 0,
    "manifold_batch_code": "PW",
    "material_code": 0,
    "material_name": "",
    "material_type": 0,
    "mco_required": false,
    "minimum_level": 0,
    "order_number": "",
    "pump_strokes": 0,
    "quick_mco_avail": false,
    "specific_gravity": 0,
    "status": [2],
    "status_expiry": 0,
    "uid": "",
    "volume": 0
  }

```

sprint问10040, 3D回复

```
"header": {
  "msg_method": 10040,
  "msg_sn": 12,
  "msg_type": 2,
  "version": 1
},
"payload": {
  "build_state": 0
}
```

sprint问10041 , 3D回复

```
"header": {
  "msg_method": 10041,
  "msg_sn": 13,
  "msg_type": 2,
  "version": 1
},
"payload": {
  "layer": 0,
  "time_remaining": 0,
  "total_layers": 0
}
```

sprint问10080 , 3D回复

```
"header": {
  "msg_method": 10080,
  "msg_sn": 14,
  "msg_type": 2,
  "version": 1
},
"payload": {
  "job_list": [{
    "job": {
      "advanced_print_optimization": false,
      "build_mode": "XHD",
      "build_time_estimate": 7609,
      "completion_time": 0,
      "extent_units": 0,
      "file_name": "slicer_configuration.xml",
      "job_id": 6056,
      "machine_sender": "DESKTOP-R88BIE8",
      "material": ["VisiJet M2 CAST"],
      "material_actual": [""],
      "material_actual_part_weight": [0],
      "material_actual_support": [""],
      "material_actual_support_weight": [0],
      "material_estimate_part": [0.008851],
      "material_estimate_part_volume": [0.0111053953583612],
      "material_estimate_support": [0.012246],
      "material_estimate_support_volume": [0.0141572252774407],
      "meta_data": "",
      "name": "1",
      "owner": "Justin",

```

```

        "speed_optimization": false,
        "start_time": 0,
        "status": 0,
        "status_change_time": 1629448537,
        "submit_time": 1629448537,
        "thumbnail_name": "Preview.png",
        "total_layers": 796,
        "waste_actual_total_weight": 0,
        "waste_estimate": 0.016597,
        "waste_estimate_volume": 0.0199268543073721,
        "x_extent": 0.396062992125984,
        "y_extent": 0.396062992125984,
        "z_extent": 0.393700787401575
    }
}],
    "spooler_id": 0
}

```

sprint再问10080 (spooler\_id: 0-1)

3D连续回复n多帧

```

{
    "header": {
        "msg_method": 10080,
        "msg_sn": 15,
        "msg_type": 2,
        "version": 1
    },
    "payload": {
        "job_list": [{
            "job": {
                "advanced_print_optimization": false,
                "build_mode": "XHD",
                "build_time_estimate": 11480,
                "completion_time": 1629438567,
                "extent_units": 0,
                "file_name": "slicer_workorder.xml",
                "job_id": 6055,
                "machine_sender": "WLX1R8FHZ07UI32",
                "material": ["VisiJet M2 CAST"],
                "material_actual": ["VisiJet M2 CAST"],
                "material_actual_part_weight": [0.014252225302019],
                "material_actual_support": ["VisiJet M2 SUW"],
                "material_actual_support_weight": [0.04512503259898],
                "material_estimate_part": [0.014568],
                "material_estimate_part_volume": [0.0182785447498142],
                "material_estimate_support": [0.045518],
                "material_estimate_support_volume":
[0.0526219647377547],
                "meta_data": "{\"tpFiles\": [], \"job_id\": \"00-04-5f-b6-
57-72-a37b480e-b859-4c4d-8c55-bf4cc389d8f2\"}",
                "name": "Part",
                "owner": "administrator",
                "speed_optimization": false,
                "start_time": 1629428275,
                "status": 2,
            }
        ]
    }
}

```

```

        "status_change_time": 1629438567,
        "submit_time": 1629428225,
        "thumbnail_name": "Preview.png",
        "total_layers": 1195,
        "waste_actual_total_weight": 0.025670182172,
        "waste_estimate": 0.026059,
        "waste_estimate_volume": 0.0309784218738363,
        "x_extent": 6.15381896529089,
        "y_extent": 2.31947340427678,
        "z_extent": 0.643149732219515
    }
}, {
    "job": {
        "build_mode": "",
        "build_time_estimate": 1052,
        "completion_time": 1629427765,
        "extent_units": 0,
        "file_name": "",
        "job_id": 6053,
        "machine_sender": "PROJET2500",
        "material": ["VisiJet M2 CAST"],
        "material_actual": ["VisiJet M2 CAST"],
        "material_actua

```

sprint 问10063, 3D回复

```

"header": {
    "msg_method": 10063,
    "msg_sn": 16,
    "msg_type": 2,
    "version": 1
},
"payload": {
    "count": 1,
    "id": [2]
}

```

sprint 问10064, 3D回复

```

"header": {
    "msg_method": 10064,
    "msg_sn": 17,
    "msg_type": 2,
    "version": 1
},
"payload": {
    "capacity": 1071,
    "id": 2,
    "level": 19,
    "name": "Waste Bag",
    "order_number": "310248-00",
    "status": [0],
    "volume": 1250
}

```

sprint问20031,3D回复如上

sprint问10003,3D回复如上

sprint问10001,3D回复如上

sprint问10061, 3D回复

```
"header": {
  "msg_method": 10061,
  "msg_sn": 22,
  "msg_type": 2,
  "version": 1
},
"payload": {
  "count": 4,
  "flush_material_supported": [],
  "id": [0, 1, 2, 3],
  "mode": 0,
  "part_material_supported": [{
    "batch_code": "PW",
    "capacity": 1170,
    "color_code": 17,
    "hidden": false,
    "material_code": 205,
    "material_name": "VisiJet M2 CAST",
    "material_type": 5,
    "order_number": "24215-915",
    "specific_gravity": 0.796999990940094,
    "volume": 932
  }],
  "support_material_supported": [{
    "batch_code": "SW",
    "capacity": 1300,
    "color_code": 2,
    "hidden": false,
    "material_code": 201,
    "material_name": "VisiJet M2 SUW",
    "material_type": 1,
    "order_number": "24180-915",
    "specific_gravity": 0.865000009536743,
    "volume": 1125
  }],
  "vat_type": 0
}
```

sprint问 10062 id = 0, 3D回复如上。

sprint问 10062 id = 1, 3D回复如上。

sprint问 10062 id = 2, 3D回复如上。

sprint问 10062 id = 3, 3D回复如上。

sprint问 10040 回复如上。

sprint问 10041 回复如上。

sprint问 10080 回复如上。

sprint再问10080 回复如上。



当参数 file\_type:5,job\_id:0时回复

```
"header": {
  "msg_method": 10161,
  "msg_sn": 16,
  "msg_type": 2,
  "version": 1
},
"payload": {
  "conn_type": 1,
  "file_name": "PROJET2500_BuildReport_20210820_043528576.csv",
  "file_size": 1119289,
  "file_type": 5,
  "port": 30308,
  "session_id": 16
}
```

当参数 file\_type:9,job\_id:0,id:3 时回复

```
"header": {
  "msg_method": 10161,
  "msg_sn": 39,
  "msg_type": 2,
  "version": 1
},
"payload": {
  "conn_type": 1,
  "file_name": "ProJetMJP2500W_30101318309_20210818_223010_G_1.zip",
  "file_size": 6965486,
  "file_type": 9,
  "port": 30308,
  "session_id": 39
}
```

当参数 file\_type:9,job\_id:0,id:1 时回复

```
"header": {
  "msg_method": 10161,
  "msg_type": 2,
  "version": 1
},
"payload": {
  "conn_type": 1,
  "file_name": "ProJetMJP2500W_30101318309_20210820_043528_L_1.zip",
  "file_size": 94446,
  "file_type": 9,
  "port": 30308,
  "session_id": 15
}
```

-----准备开始传图操作-----

sprint问10067 3D回复

```
"header": {
  "msg_method": 10067,
  "msg_sn": 24,
  "msg_type": 2,
  "version": 1
},
"payload": {
  "supported": [{
    "part_materials": [205],
    "print_modes": [3]
  }]
}
```

sprint问 20040 , 3D回复

```
"header": {
  "msg_method": 20040,
  "msg_sn": 25,
  "msg_type": 2,
  "version": 1
},
"payload": {
  "build_mode": [0.0211666654795408, 0.0211666654795408,
0.0158749986439943, 1, 46, 0, 67, 9.37435531616211, 20.5530071258545,
23.5748043060303, 32.2581367492676, 9.37435531616211, 20.5530071258545,
23.5748043060303, 32.2581367492676, 0, 43200, 67, 0, 31, 0, 46, 165, 0, 0, 0, 0,
0, 40, 25, 20, 70, 0, 31, 2, 86],
  "estimate": 0,
  "num_passes_per_layer": 4,
  "print_mode": 3,
  "process_dir_acceleration": 447.69287109375,
  "process_dir_deceleration": 1313.72082519531,
  "process_dir_velocity": 465.666625976563
}
```

sprint问 20041 , 3D回复

```
"header": {
  "msg_method": 20041,
  "msg_sn": 26,
  "msg_type": 2,
  "version": 1
},
"payload": {
  "atlas_slicer": {
    "border_pattern_ratio": [
      [1]
    ],
    "bottom_layer_num": 0,

```

```

        "enclosure_pattern_ratio": [
            [1]
        ],
        "enclosure_thickness": [24, 24],
        "enclosure_top_surface": 0,
        "part_pattern_ratio": [
            [1]
        ],
        "reinforce_interval_num": 90,
        "reinforce_pattern_ratio": [
            [0.703703999519348],
            [0.444444000720978]
        ],
        "reinforce_repeat_num": 20,
        "reinforce_start_layer": 40,
        "start_solid_from_upfacing": 1,
        "stop_reinforce_num": 102,
        "support_arm_pit": 1,
        "support_arm_pit_depth": 20,
        "support_arm_pit_step": 40,
        "support_arm_pit_thickness": [8, 8],
        "support_boundary": [6, 6],
        "support_pattern_end_layers": [5, 10000, -102, -85, -72, -60],
        "support_pattern_ratio": [
            [1],
            [0.484567999839783],
            [0.654321014881134],
            [0.808642029762268],
            [0.851851999759674],
            [1]
        ],
        "top_layer_num": 0
    },
    "build_mode": [8.05000019073486, 7.15999984741211, 4.76999998092651,
4.34000015258789, 4.76999998092651, 4.34000015258789, 4.76999998092651,
4.34000015258789, 0.0500000007450581, 0.0500000007450581, 9.86499977111816,
8.30999946594238],
    "estimate": [0, 0],
    "part_estimate": 0,
    "print_mode": 3,
    "support_estimate": 0
}

```

10061 - 10062 一通询问

sprint问10160, 3D回复

```
"header": {
  "msg_method": 10160,
  "msg_type": 2,
  "version": 1
},
"payload": {
  "conn_type": 1,
  "file_name": "2021-8-20_16-35-892.mjpddd",
  "port": 30307,
  "session_id": 32
}
```

-----传图中-----

文件传完后主动回复 10162

```
"header": {
  "msg_method": 10162,
  "msg_sn": 9721,
  "msg_type": 4,
  "version": 1
},
"payload": {
  "file_name": "2021-8-20_16-35-892.mjpddd",
  "file_size": 17188,
  "file_state": 0,
  "session_id": 32
}
```

sprint问10097,3D回复

```
"header": {
  "msg_method": 10097,
  "msg_sn": 33,
  "msg_type": 2,
  "version": 1
},
"payload": {
  "status": 0
}
```

3D主动回复

```
"header": {
  "msg_method": 10088,
  "msg_type": 4,
  "version": 1
},
"payload": {
  "job_id_list": [6056],
  "spooler_id": 0
}
```

