抓包整理

sprint 问 msg_method 1

3D回复

```json
"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

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

sprint问10003

3D回复

```json
"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,
```

```json
        "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**）

```json
    "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

```json
  "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",
```

```json
                "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

```json
{
    "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。

sprint问10161 3D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
    }
```

------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
    }
```

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
}
```

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