# Elite:Dangerous Player Journal

# 1 Introduction

Elite: Dangerous writes a network log file primarily to help when investigating problems.

Third-party tools developers have been reading some of the entries in the network log file, mainly in order to track the player's location.

There is a clear demand from players for third-party tools, and from tools developers for more information from the game and/or server api.

The new Player Journal provides a stream of information about gameplay events which can be used by tools developers to provide richer, more detailed tools to enhance the player experience. The data records written to this journal are much more high-level then that written to the network log.

A short example of a player journal file (out of date, some events may have additional data):

```
{ "timestamp":"2016-06-10T14:31:00Z", "event":"FileHeader", "part":1, "gameversion":"2.2", "build":"r113684 " },
Titmestamp":"2016-06-10T14:32:03Z", "event":"LoadGame", "Commander":"HRC1", "Ship":"SideWinder", "ShipID":1,
"GameMode":"Open", "Credits":600120, "Loan":0 }
{ "timestamp":"2016-06-10T14:32:03Z", "event":"Rank", "Combat":0, "Trade":0, "Explore":1, "Empire":0, "Federation":0, "CQC":0 } { "timestamp":"2016-06-10T14:32:03Z", "event":"Progress", "Combat":0, "Trade":0, "Explore":73, "Empire":0, "Federation":0, "CQC":0
{ "timestamp": "2016-06-10T14:32:15Z", "event": "Location", "StarSystem": "Asellus Primus", "StarPos": [-23.938,40.875,-1.344] }
{ "timestamp": "2016-06-10T14:32:16Z", "event": "Docked", "StationName": "Beagle 2 Landing", "StationType": "Coriolis" } { "timestamp": "2016-06-10T14:32:38Z", "event": "RefuelAll", "Cost": 12, "Amount": 0.234493 } { "timestamp": "2016-06-10T14:34:25Z", "event": "Undocked", "StationName": "Beagle 2 Landing", "StationType": "Coriolis" }
{ "timestamp":"2016-06-10T14:35:00Z", "event":"FSDJump", "StarSystem":"HIP 78085", "StarPos":[120.250,40.219,268.594],
"JumpDist":36.034 }
{ ""timestamp": "2016-06-10T14:35:22Z", event": "Scan", "BodyName": "HIP 78085 A", "StarType": "G" }
{ "timestamp":"2016-06-10T14:36:10Z", "event":"FSDJump", "StarSystem":"Praea Euq NW-W b1-3",
"StarPos":[120.719,34.188,271.750], "JumpDist":6.823 }
{ "timestamp":"2016-06-10T14:36:42Z", "event":"Scan", "BodyName":"Praea Eug NW-W b1-3", "StarType":"M" }
{ "timestamp": "2016-06-10T14:38:50Z", "event": "Scan", "BodyName": "Praea Eug NW-W b1-3 3", "Description": "Icy body with neon
rich atmosphere and major water geysers volcanism" }
{ "timestamp": "2016-06-10T14:39:08Z", "event": "Scan", "BodyName": "Praea Euq NW-W b1-3 3 a", "Description": "Tidally locked Icy
body" }
{"timestamp":"2016-06-10T14:41:03Z", "event":"FSDJump", "StarSystem":"Asellus Primus", "StarPos":[-23.938,40.875,-1.344],
"JumpDist":39.112 }
{ "timestamp": "2016-06-10T14:41:26Z", "event": "SupercruiseExit", "StarSystem": "Asellus Primus", "Body": "Beagle 2 Landing" }
{ "timestamp":"2016-06-10T14:41:29Z", "event":"Docked", "StationName":"Beagle 2 Landing", "StationType":"Coriolis" }
{ "timestamp":"2016-06-10T14:41:58Z", "event":"SellExplorationData", "Systems":[ "HIP 78085", "Praea Euq NW-W b1-3" ],
"Discovered":[ "HIP 78085 A", "Praea Eug NW-W b1-3", "Praea Eug NW-W b1-3 3 a", "Praea Eug NW-W b1-3 3" ], "BaseValue":10822,
"Bonus":3959 }
```

## 1.1 ChangeLog

- File is formatted as line-delimited ison
- Timestamp inside event object, ISO 8601 format
- Fileheader format changed
- Include faction info and faction state, for Starsystem and Station
- New event for dropping out of supercruise at a USS
- Interdiction events include extra info about the other player/NPC
- Remove PowerplayNominate (duplicate for PowerplayVote)
- Include gameplay mode, and credit balance in LoadGame
- Include station name and type in Location event if docked at startup
- Include Economy, Government and Security info for Starsystem on jump
- Include Economy, Government and Security info for Station when docking
- Include ship ID in shipyard entries
- Reorganised format for data when killed by a wing of players
- Record latitude and longitude when landing on planet
- Automatic localisation of text symbols
- Improved granularity of data, and additional info, for star and planet scans
- Planet Scan: Landable property is now 0 or 1, not a quoted string
- New HeatWarning and HeatDamage events
- New ShieldState and HullDamage events
- Report fuel used and fuel level on each jump
- RestockVehicle: added 'count' property for purchasing multiple vehicles
- Add events for DockingRequested, Denied, Granted etc
- Add mission expiry time

# 2 File Format

The Player Journal is written in line-delimited JSON format (see son.org and jsonlines.org), to provide a standard format for ease of machine parsing, while still being intelligible to the human reader.

Each Journal file is a series of lines each containing one Json object.

## 2.1 File Location

The journal files are (currently) written into the same folder as the network log files.

The filename is of the form Journal. < datestamp>. < part>.log, similar to network log files

## 2.2 Heading entry

The Heading record has a Json object with the following values:

- timestamp: the time in GMT, ISO 8601
- part: the file part number
- language: the language code
- gameversion: which version of the game produced the log (will indicate if beta)
- build: game build number

changed

#### Example:

```
{ "timestamp":"2016-07-22T10:20:01Z", "event":"fileheader", "part":1, "language":"French/FR", "gameversion":"2.2 Beta 1", "build":"r114123 " }
```

(If the play session goes on a long time, and the journal gets very large, the file will be closed and a new file started with an increased part number)

### 2.3 Event Records

Each event record is a json object.

The object has a "timestamp" value with the time in ISO 8601 format, an "event": "eventname" key-value pair identifying the type of event, followed by other key-value pairs providing additional information.

The rest of this document describes each type of event that might be written into the journal, and the data values for each event.

## 2.4 Localisation

Some values written into the log use internal symbol IDs, as used by the game to lookup localised text strings. These have the form "\$symbolname;"

When such values are written into the log, the iocalised version of the string will also be written, as a separate key-value pair, with "\_Localised" appended to the key name.

Examples throughout this document have not been updated with this extra localised format

"Government": "\$government\_PrisonColony;", "Government\_Localised": "Colonie pénitentiaire"

# 3 Startup

## 3.1 ClearSavedGame

When written: If you should ever reset your game

#### Parameters:

Name: commander name

#### Example:

```
{ "timestamp":"2016-06-10T14:32:03Z", "event":"ClearSavedGame", "Name":"HRC1" }
```

## 3.2 NewCommander

When written: Creating a new commander

#### Parameters:

- Name: (new) commander name
- Package: selected starter package

## Example:

```
{ "timestamp":"2016-06-10T14:32:03Z", "event":"NewCommander", "Name":"HRC1", "Package":"ImperialBountyHunter" }
```

## 3.3 LoadGame

When written: at startup, when loading from main menu into game

### Parameters:

- Commander: commander name
- Ship: current ship type
- ShipID: ship id number
- StartLanded: true (only present if landed)
- StartDead:true (only present if starting dead: see "Resurrect")
- GameMode: Open, Solo or Group
- Group: name of group (if in a group)
- Credits: current credit balance
- Loan: current loan

changed

```
{ "timestamp":"2016-06-10T14:32:03Z", "event":"LoadGame", "Commander":"HRC1", "Ship":"CobraMkIII", "ShipID":1, "GameMode":"Group", "Group":"Mobius", "Credits":600120, "Loan":0 }
```

## 3.4 Progress

When written: at startup

#### Parameters:

• Combat: percent progress to next rank

Trade: "Explore: "Empire: "Federation: "CQC: "

### Example:

{ "timestamp":"2016-06-10T14:32:03Z", "event":"Progress", "Combat":77, "Trade":9, "Explore":93, "Empire":0, "Federation":0, "CQC":0 }

### 3.5 Rank

When written: at startup

#### Parameters:

Combat: rank on scale 0-8
 Trade: rank on scale 0-8
 Explore: rank on scale 0-8
 Empire: military rank
 Federation: military rank
 CQC: rank on scale 0-8

### Example:

```
{ "timestamp":"2016-06-10T14:32:03Z", "event":"Rank", "Combat":2, "Trade":2, "Explore":5, "Empire":1, "Federation":3, "CQC":0 }
```

### Ranks

**Combat ranks**: 0='Harmless', 1='Mostly Harmless', 2='Novice', 3='Competent', 4='Expert', 5='Master', 6='Dangerous', 7='Deadly', 8='Elite'

*Trade ranks*: 0='Penniless', 1='Mostly Pennliess', 2='Peddler', 3='Dealer', 4='Merchant', 5='Broker', 6='Entrepreneur', 7='Tycoon', 8='Elite'

**Exploration ranks**: 0='Aimless', 1='Mostly Aimless', 2='Scout', 3='Surveyor', 4='Explorer', 5='Pathfinder', 6='Ranger', 7='Pioneer', 8='Elite'

**Federation ranks**: 0='None', 1='Recruit', 2='Cadet', 3='Midshipman', 4='Petty Officer', 5='Chief Petty Officer', 6='Warrant Officer', 7='Ensign', 8='Lieutenant', 9='Lt. Commander', 10='Post Commander', 11= 'Post Captain', 12= 'Rear Admiral', 13='Vice Admiral', 14='Admiral'

*Empire ranks*: 0='None', 1='Outsider', 2='Serf', 3='Master', 4='Squire', 5='Knight', 6='Lord', 7='Baron', 8='Viscount', 9='Count', 10= 'Earl', 11='Marquis' 12='Duke', 13='Prince', 14='King'

*CQC ranks*: 0='Helpless', 1='Mostly Helpless', 2='Amateur', 3='Semi Professional', 4='Professional', 5='Champion', 6='Hero', 7='Legend', 8='Elite'

## 4 Travel

## 4.1 Docked

When written: when landing at landing pad in a space station, outpost, or surface settlement

### Parameters:

- StationName: name of station
- StationType: type of station
- StarSystem: name of system
- CockpitBreach:true (only if landing with breached cockpit)
- Faction: station's controlling faction
- FactionState
- Economy
- Government
- Security

changed

#### Example:

```
{ "timestamp":"2016-06-10T14:32:03Z", "event":"Docked", "StationName":"Kotov Refinery", "StationType":"Outpost", "StarSystem":"Wolf 289", "Faction":"Wolf 289 Gold Federal Industry", "FactionState":"CivilWar", "Economy":"$economy_Extraction", "Government":"$government Corporate", "Security":"$SYSTEM SECURITY high anarchy;" }
```

## 4.2 DockingCancelled

When written: when the player cancels a docking request

#### Parameters:

• StationName: name of station

new

## 4.3 DockingDenied

When written: when the station denies a docking request

### Parameters:

StationName: name of stationReason: reason for denial

Reasons include: NoSpace, TooLarge, Hostile, Offences, Distance, ActiveFighter, NoReason

New

## 4.4 DockingGranted

When written: when a docking request is granted

#### Parameters:

• StationName: name of station

• LandingPad: pad number

New

## 4.5 DockingRequested

When written: when the player requests docking at a station

#### Parameters:

• StationName: name of station

New

## 4.6 DockingTimeout

When written: when a docking request has timed out

#### Parameters:

• StationName: name of station

New

## 4.7 FSDJump

When written: when jumping from one star system to another

#### Parameters:

- StarSystem: name of destination starsystem
- StarPos: star position, as a Json array [x, y, z], in light years
- Body: star's body name
- JumpDist: distance jumped
- FuelUsed
- FuelLevel
- BoostUsed: whether FSD boost was used
- Faction: system controlling faction
- FactionState
- Economy
- Government
- Security

changed

```
{"timestamp":"2016-07-21T13:16:49Z", "event":"FSDJump", "StarSystem":"LP 98-132", "StarPos":[-26.781,37.031,-4.594], "Economy":"$economy_Extraction;",
"Government":"$government_Anarchy;", "Security":"$SYSTEM_SECURITY_high_anarchy;",
"JumpDist":5.230, "FuelUsed":0.355614, "FuelLevel":12.079949, "Faction":"Brotherhood of LP 98-
132", "FactionState":"Outbreak" }
```

## 4.8 Liftoff

When written: when taking off from planet surface

#### Parameters:

- Latitude
- Longitude

changed

### Example:

```
{ "timestamp":"2016-07-22T10:53:19Z", "event":"Liftoff", "Latitude":63.468872, "Longitude":157.599380 }
```

## 4.9 Location

When written: at startup, or when being resurrected at a station

### Parameters:

- StarSystem: name of destination starsystem
- StarPos: star position, as a Json array [x, y, z], in light years
- Body: star's body name
- Docked: true (if docked)
- StationName: station name, (if docked)
- StationType: (if docked)
- Faction: star system controlling faction
- FactionState
- Economy
- Government
- Security

changed

### Example:

```
{ "timestamp":"2016-07-21T13:14:25Z", "event":"Location", "Docked":1, "StationName":"Azeban City", "StationType":"Coriolis", "StarSystem":"Eranin", "StarPos":[-22.844,36.531,-1.188], "Economy":"$economy_Agri;", "Government":"$government_Communism;", "Security":$SYSTEM_SECURITY_medium;, "Faction":"Eranin Peoples Party" }
```

## 4.10 SupercruiseEntry

When written: entering supercruise from normal space

#### Parameters:

Starsystem

```
{"timestamp":"2016-06-10T14:32:03Z", "event":"SupercruiseEntry", "StarSystem":"Yuetu" }
```

## 4.11 SupercruiseExit

When written: leaving supercruise for normal space

### Parameters:

- Starsystem
- Body

#### Example:

```
{ "timestamp":"2016-06-10T14:32:03Z", "event":"SupercruiseExit", "StarSystem":"Yuetu", "Body":"Yuetu B" }
```

## 4.12 Touchdown

When written: landing on a planet surface

### Parameters:

- Latitude
- Longitude

changed

## Example:

```
{ "timestamp":"2016-07-22T10:38:46Z", "event":"Touchdown", "Latitude":63.468872, "Longitude":157.599380 }
```

## 4.13 Undocked

When written: liftoff from a landing pad in a station, outpost or settlement

### Parameters:

• StationName: name of station

```
 \{ \ "timestamp":"2016-06-10T14:32:03Z", "event":"Undocked", "StationName":"Long Sight Base" \}
```

# 5 Combat

## 5.1 Bounty

When written: player is awarded a bounty for a kill

### Parameters:

- Faction: the faction awarding the bounty
- Reward: the reward value
- VictimFaction: the victim's faction
- SharedWithOthers: whether shared with other players

### Example:

```
{ "timestamp":"2016-06-10T14:32:03Z", "event":"Bounty", "Faction":"$faction_Federation;", "Target":"Skimmer", "Reward":1000, "VictimFaction":"MMU" }
```

## 5.2 CapShipBond

When written: The player has been rewarded for a capital ship combat

#### Parameters:

- Reward: value of award
- AwardingFaction
- VictimFaction

## 5.3 Died

When written: player was killed

#### Parameters:

- KillerName
- KillerShip
- KillerRank

```
{ "timestamp":"2016-06-10T14:32:03Z", "event":"Died", "KillerName":"$ShipName_Police_Independent;", "KillerShip":"viper", "KillerRank":"Deadly" }
```

## 5.4 Died

When written: player was killed by a wing

#### Parameters:

• Killers: a JSON array of objects containing player name, ship, and rank

changed

#### Example:

```
{ "timestamp":"2016-06-10T14:32:03Z", "event":"Died", "Killers":[ { "Name":"Cmdr HRC1", "Ship":"Vulture", "Rank":"Competent" }, { "Name":"Cmdr HRC2", "Ship":"Python", "Rank":"Master" } ] }
```

## 5.5 EscapeInterdiction

When written: Player has escaped interdiction

#### Parameters:

- Interdictor: interdicting pilot name
- IsPlayer: whether player or npc

changed

#### Example:

```
{"timestamp":"2016-06-10T14:32:03Z", "event":"EscapeInterdiction", "Interdictor":"Hrc1", "IsPlayer":"true" }
```

### 5.6 FactionKillBond

When written: Player rewarded for taking part in a combat zone

#### Parameters:

- Reward
- AwardingFaction
- VictimFaction

### Example:

```
{"timestamp":"2016-06-10T14:32:03Z", "event":"FactionKillBond", "Reward": 500, "AwardingFaction":"Jarildekald Public Industry", "VictimFaction": "Lencali Freedom Party" }
```

## 5.7 HeatDamage

When written: when taking damage due to overheating

Parameters:none

New

## 5.8 HeatWarning

When written: when heat exceeds 100%

Parameters: none

New

## 5.9 HullDamage

When written: when hull health drops below a threshold (20% steps)

#### Parameters:

Health

New

## Example:

## 5.10 Interdicted

When written: player was interdicted by player or npc

#### Parameters:

• Submitted: true or false

Interdictor: interdicting pilot nameIsPlayer: whether player or npc

CombatRank: if player

• Faction: if npc

• Power: if npc working for a power

changed

```
{ "timestamp":"2016-06-10T14:32:03Z", "event":"interdicted", "Submitted":false, "Interdictor":"Dread Pirate Roberts", "IsPlayer":false, "Faction": "Timocani Purple Posse" }
```

## 5.11 Interdiction

When written: player has (attempted to) interdict another player or npc

### Parameters:

• Success : true or false

Interdicted: victim pilot nameIsPlayer: whether player or npc

• CombatRank: if a player

• Faction: if an npc

• Power: if npc working for power

changed

## Example:

```
{ "timestamp":"2016-06-10T14:32:03Z", "event":"interdiction", "Success":true, "Interdicted":"Fred Flintstone", "IsPlayer":"true", "CombatRank":5 }
```

## 5.12 ShieldState

When written: when shields are disabled in combat, or recharged

### Parameters:

• ShieldsUp 0 when disabled, 1 when restored

New

```
 \label{thm:condition} $$ \{ "timestamp":"2016-07-25T14:45:48Z", "event":"ShieldState", "ShieldsUp":0 } $$ \{ "timestamp":"2016-07-25T14:46:36Z", "event":"ShieldState", "ShieldsUp":1 } $$ $$ \{ "timestamp":"2016-07-25T14:46:36Z", "event":"ShieldState", "ShieldsUp":1 } $$ $$ \{ "timestamp":"2016-07-25T14:46:36Z", "event":"ShieldState", "ShieldsUp":1 } $$ $$ \{ "timestamp":"2016-07-25T14:46:36Z", "event":"ShieldState", "ShieldState", "Shiel
```

# 6 Exploration

## 6.1 Scan

When Written: detailed discovery scan of a star, planet or moon

## Parameters(star)

- Bodyname: name of body
- DistanceFromArrivalLS
- StarType: Stellar classification (for a star)
- StellarMass: mass as multiple of Sol's mass
- Radius
- AbsoluteMagnitude
- OrbitalPeriod (seconds)
- RotationPeriod (seconds)
- Rings

### Parameters(Planet/Moon)

- Bodyname: name of body
- DistanceFromArrivalLS
- TidalLock: 1 if tidally locked
- TerraformState: Terraformable, Terraforming, Terraformed, or null
- PlanetClass
- Atmosphere
- Volcanism
- SurfaceTemperature
- SurfacePressure
- Landable: true (if landable)
- Materials: JSON object with material names and percentage occurrence
- OrbitalPeriod (seconds)
- RotationPeriod (seconds)
- Rings

changed

```
{ "timestamp":"2016-07-25T10:02:38Z", "event":"Scan", "BodyName":"Alnitak",
   "DistanceFromArrivalLS":0.000000, "StarType":"O", "StellarMass":26.621094,
   "Radius":2305180672.000000, "AbsoluteMagnitude":-5.027969, "OrbitalPeriod":5755731.500000,
   "RotationPeriod":90114.937500, "Rings":0 }

{ "timestamp":"2016-07-25T10:06:18Z", "event":"Scan", "BodyName":"Alnitak 5 a",
   "DistanceFromArrivalLS":3140.878662, "TidalLock":1, "TerraformState":"", "PlanetClass":"Metal rich
   body", "Atmosphere":"", "Volcanism":"metallic magma volcanism", "MassEM":0.007963,
   "Radius":1057332.250000, "SurfaceGravity":2.839034, "SurfaceTemperature":1056.572266,
   "SurfacePressure":0.000000, "Landable":1, "Materials":{ "iron":35.1, "nickel":26.5, "chromium":15.8,
   "manganese":14.5, "niobium":2.4, "yttrium":2.1, "tungsten":1.9, "arsenic":1.7 },
   "OrbitalPeriod":114871.875000, "RotationPeriod":114872.335938, "Rings":0 }
```

## 6.2 MaterialCollected

When Written: whenever materials are collected

#### Parameters:

- Category: type of material (Raw/Encoded/Manufactured)
- Name: name of material

#### Examples:

```
{ "timestamp":"2016-06-10T14:32:03Z", "event":"MaterialCollected", "Category":"Raw", "Name":"sulphur" } { "timestamp":"2016-06-10T14:32:03Z", "event":"MaterialCollected", "Category":"Encoded", "Name":"disruptedwakeechoes" }
```

### 6.3 MaterialDiscarded

When Written: if materials are discarded

#### Parameters:

- Category
- Name
- Count

#### Example:

```
{ "timestamp":"2016-06-10T14:32:03Z", "event":"MaterialDiscarded", "Category":"Raw", "Name":"sulphur", "Count": 5 }
```

### 6.4 MaterialDiscovered

When Written: when a new material is discovered

## Parameters:

- Category
- Name
- DiscoveryNumber

### Example:

```
{ "timestamp":"2016-06-10T14:32:03Z", "event":"MaterialDiscovered", "Category":"Manufactured", "Name":"focuscrystals", "DiscoveryNumber":3 }
```

## 6.5 BuyExplorationData

When Written: when buying system data via the galaxy map

### Parameters:

- System
- Cost

```
{ "timestamp":"2016-06-10T14:32:03Z", "event":"BuyExplorationData", "System":"Styx", "Cost":352 }
```

## 6.6 SellExplorationData

When Written: when selling exploration data in Cartographics

### Parameters:

• Systems: JSON array of system names

• Discovered: JSON array of discovered bodies

BaseValue: value of systems

• Bonus: bonus for first discoveries

#### Example:

 $\{ \text{"timestamp":"2016-06-10T14:32:03Z", "event":"SellExplorationData", "Systems":[ "HIP 78085", "Praea Euq NW-W b1-3" ], "Discovered":[ "HIP 78085 A", "Praea Euq NW-W b1-3", "Praea Euq NW-W b1-3 3 a", "Praea Euq NW-W b1-3 3" ], "BaseValue":10822, "Bonus":3959 }$ 

## 6.7 Screenshot

When Written: when a screen snapshot is saved

#### Parameters:

• Filename: filename of screenshot

Width: size in pixelsHeight: size in pixels

System: current star systemBody: name of nearest body

#### Example:

{ "timestamp":"2016-06-10T14:32:03Z", "event":"Screenshot", "Filename":"\_Screenshots/Screenshot\_0151.bmp", "Width":1600, "Height":900, "System":"Shinrarta Dezhra", "Body":"Founders World" }

# 7 Trade

## 7.1 BuyTradeData

When Written: when buying trade data in the galaxy map

## Parameters:

System: star system requested

Cost: cost of data

### Example:

{ "timestamp":"2016-06-10T14:32:03Z", "event":"BuyTradeData", "System":"i Bootis", "Cost":100 }

## 7.2 CollectCargo

When Written: when scooping cargo from space or planet surface

#### Parameters:

• Type: cargo type

• Stolen: whether stolen goods

### Example:

```
{ "timestamp": "2016-06-10T14:32:03Z", "event": "CollectCargo", "Type": "agriculturalmedicines", "Stolen": 0}
```

## 7.3 EjectCargo

When Written:

## Parameters:

• Type: cargo type

• Count: number of units

• Abandoned: whether 'abandoned'

```
{ "timestamp":"2016-06-10T14:32:03Z", "event":"EjectCargo", "Type":"tobacco", "Count":1, "Abandoned":1 }
```

## 7.4 MarketBuy

When Written: when purchasing goods in the market

### Parameters:

• Type: cargo type

Count: number of unitsBuyPrice: cost per unitTotalCost: total cost

#### Example:

```
{ "timestamp":"2016-06-10T14:32:03Z", "event":"MarketBuy", "Type":"foodcartridges", "Count":10, "BuyPrice":39, "TotalCost":390 }
```

### 7.5 MarketSell

When Written: when selling goods in the market

#### Parameters:

- Type: cargo type
- Count: number of units
- SellPrice: price per unit
- TotalSale: total sale value
- AvgPricePaid: average price paid
- IllegalGoods: (not always present) whether goods are illegal here
- StolenGoods: (not always present) whether goods were stolen
- BlackMarket: (not always present) whether selling in a black market

#### Examples:

```
{ "timestamp":"2016-06-10T14:32:03Z", "event":"MarketSell", "Type":"agriculturalmedicines", "Count":3, "SellPrice":1360, "TotalSale":4080, "AvgPricePaid":304 }
{ "event":"MarketSell", "Type":"mineraloil", "Count":9, "SellPrice":72, "TotalSale":648, "AvgPricePaid":0, "StolenGoods":true, "BlackMarket":true }
```

## 7.6 MiningRefined

When Written: when mining fragments are converted unto a unit of cargo by refinery

### Parameters:

Type: cargo type

```
{ "timestamp": "2016-06-10T14:32:03Z", "event": "MiningRefined", "Type: "Gold" }
```

# 8 Station Services

## 8.1 BuyAmmo

When Written: when purchasing ammunition

## Parameters:

Cost

## Example:

{ "timestamp":"2016-06-10T14:32:03Z", "event":"BuyAmmo", "Cost":80 }

## 8.2 BuyDrones

When Written: when purchasing drones

### Parameters:

- Type
- Count
- BuyPrice
- TotalCost

### Example:

```
{ "timestamp":"2016-06-10T14:32:03Z", "event":"BuyDrones", "Type":"Drones", "Count":2, "SellPrice":101, "TotalCost":202 }
```

## 8.3 CommunityGoalJoin

When Written: when signing up to a community goal

## Parameters:

- Name
- System

## 8.4 CommunityGoalReward

When Written: when receiving a reward for a community goal

### Parameters:

- Name
- System
- Reward

## 8.5 EngineerApply

When Written: when applying an engineer's upgrade to a module

#### Parameters:

- Engineer: name of engineer
- Blueprint: blueprint being applied
- Level: crafting level
- Override: whether overriding special effect

#### Example:

```
{ "timestamp":"2016-06-10T14:32:03Z", "event":"EngineerApply", "Engineer":"Elvira Martuuk", "Blueprint":"ShieldGenerator_Reinforced", "Level":1 }
```

## 8.6 EngineerCraft

When Written: when requesting an engineer upgrade

#### Parameters:

- Engineer: name of engineer
- Blueprint: name of blueprint
- Level: crafting level
- Ingredients: JSON object with names and quantities of materials required

#### Example:

```
{ "timestamp":"2016-06-10T14:32:03Z", "event":"EngineerCraft", "Engineer":"Elvira Martuuk", "Blueprint":"FSD_LongRange", "Level":2, "Ingredients":{"praseodymium":1, "disruptedwakeechoes":3, "chemicalprocessors":2, "arsenic":2 } }
```

## 8.7 EngineerProgress

When Written: when a player increases their access to an engineer

#### **Parameters**

- Engineer: name of engineer
- Rank: rank reached (when unlocked)
- Progress: progress stage (Invited/Acquainted/Unlocked/Barred)

```
 \label{lem:continuous} $$ \{ "timestamp":"2016-06-10T14:32:03Z", "event":"EngineerProgress", "Progress":"Unlocked", "Engineer":"Elvira Martuuk" \} $$ \{ "timestamp":"2016-06-10T14:32:03Z", "event":"EngineerProgress", "Engineer":"Elvira Martuuk", "Rank":2 \} $$
```

## 8.8 MissionAbandoned

When Written: when a mission has been abandoned

#### Parameters:

• Name: name of mission

#### Example:

```
{ "timestamp":"2016-06-10T14:32:03Z", "event":"MissionAbandoned", "Name":"Mission_Collect_name" }
```

## 8.9 MissionAccepted

When Written: when starting a mission

#### Parameters:

- Name: name of mission
- Faction: faction offering mission

Optional Parameters (depending on mission type)

- Commodity: commodity type
- Count: number required / to deliver
- Target: name of target
- TargetType: type of target
- TargetFaction: target's faction
- Expiry: mission expiry time, in ISO 8601

#### Example:

```
{ "timestamp":"2016-07-26T11:36:44Z", "event":"MissionAccepted", "Faction":"Tsu Network", "Name":"Mission_Collect", "Commodity":"$Fish_Name;", "Commodity_Localised":"Fish", "Count":2, "Expiry":"2016-07-27T15:56:23Z" }
```

## 8.10 MissionCompleted

When Written: when a mission is completed

### Parameters:

- Name: mission type
- Faction: faction name

Optional parameters (depending on mission type)

- Commodity
- Count
- Target
- TargetType
- TargetFaction
- Reward: value of reward
- Donation: donation offered (for altruism missions)
- PermitsAwarded:[] (names of any permits awarded, as a JSON array)

```
{ "timestamp":"2016-06-10T14:32:03Z", "event":"MissionCompleted", "Name":"Mission_Delivery_name", "Commodity":$Beer_Name;, "Faction":"Lencali Freedom Party", "Reward":76258 }
```

## 8.11 MissionFailed

When Written: when a mission has failed

### Parameters:

• Name: name of mission

## 8.12 ModuleBuy

When Written: when buying a module in outfitting

#### Parameters:

• Slot: the outfitting slot

• Buyltem: the module being purchased

BuyPrice: price paid

• Ship: the players ship

If replacing an existing module:

• SellItem: item being sold

• SellPrice: sale price

### Example:

```
{ "timestamp":"2016-06-10T14:32:03Z", "event":"ModuleBuy", "Slot":"MediumHardpoint2", "SellItem":"hpt_pulselaser_fixed_medium", "SellPrice":0, "BuyItem":"hpt_multicannon_gimbal_medium", "BuyPrice":50018, "Ship":"cobramkiii" }
```

## 8.13 ModuleSell

When Written: when selling a module in outfitting

#### Parameters:

- Slot
- SellItem
- SellPrice
- Ship

```
 \label{lem:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stamp:stam
```

## 8.14 ModuleSwap

When Written: when moving a module to a different slot on the ship

#### Parameters:

- FromSlot
- ToSlot
- FromItem
- Toltem
- Ship

#### Examples:

```
{"timestamp":"2016-06-10T14:32:03Z", "event":"ModuleSwap", "FromSlot":"MediumHardpoint1", "ToSlot":"MediumHardpoint2", "FromItem":"hpt_pulselaser_fixed_medium", "ToItem":"hpt_multicannon_gimbal_medium", "Ship":"cobramkiii" }

{ "timestamp":"2016-06-10T14:32:03Z", "event":"ModuleSwap", "FromSlot":"SmallHardpoint2", "ToSlot":"SmallHardpoint1", "FromItem":"hpt_pulselaserburst_fixed_small_scatter", "ToItem":"Null", "Ship":"cobramkiii" }
```

## 8.15 PayFines

When Written: when paying fines

#### Parameters:

Amount

## Example:

```
{ "timestamp":"2016-06-10T14:32:03Z", "event":"PayFines", "Amount":1791 }
```

## 8.16 PayLegacyFines

When Written: when paying legacy fines

#### Parameters:

• Amount

## 8.17 RedeemVoucher

When Written: when claiming payment for combat bounties and bonds

## Parameters:

- Type
- Amount

```
{ "timestamp":"2016-06-10T14:32:03Z", "event":"RedeemVoucher", "Type":"bounty", "Amount":1000 }
```

## 8.18 RefuelAll

When Written: when refuelling (full tank)

### Parameters:

- Cost: cost of fuel
- Amount: tons of fuel purchased

#### Example:

```
{ "timestamp":"2016-06-10T14:32:03Z", "event":"RefuelAll", "Cost":317, "Amount":6.322901 }
```

## 8.19 RefuelPartial

When Written: when refuelling (10%)

#### Parameters:

- Cost: cost of fuel
- Amount: tons of fuel purchased

#### Example:

```
{ "timestamp":"2016-06-10T14:32:03Z", "event":"RefuelPartial", "Cost":83, "Amount":1.649000 }
```

## 8.20 Repair

When Written: when repairing the ship

#### Parameters:

- Item: all, wear, hull, paint, or name of module
- Cost: cost of repair

#### Example:

```
{ "timestamp":"2016-06-10T14:32:03Z", "event":"Repair", "Item":"int_powerplant_size3_class5", "Cost":1100 }
```

## 8.21 RestockVehicle

When Written: when purchasing an SRV or Fighter

#### Parameters:

- Type: type of vehicle being purchased (SRV or fighter model)
- Loadout: variant
- Cost: purchase cost
- Count: number of vehicles purchased

changed

```
{ "timestamp":"2016-06-10T14:32:03Z", "event":"RestockVehicle", "Type":"SRV", "Loadout":"starter", "Cost":1030, "Count":1 }
```

## 8.22 SellDrones

When Written: when selling unwanted drones back to the market

### Parameters:

- Type
- Count
- SellPrice
- TotalSale

#### Example:

```
{ "timestamp":"2016-06-10T14:32:03Z", "event":"SellDrones", "Type":"Drones", "Count":1, "SellPrice":91, "TotalSale":91 }
```

## 8.23 ShipyardBuy

When Written: when buying a new ship in the shipyard

#### Parameters:

- ShipType: ship being purchased
- ShipPrice: purchase cost
- StoreOldShip: (if storing old ship) ship type being stored
- StoreShipID
- SellOldShip: (if selling current ship) ship type being sold
- SellShipID
- SellPrice: (if selling current ship) ship sale price

Note: the new ship's ShipID will be logged in a separate event after the purchase

changed

#### Example:

```
 \label{thm:continuous} $$ \{ "timestamp": "2016-07-21T14:36:38Z", "event": "ShipyardBuy", "ShipType": "hauler", "ShipPrice": 46262, "StoreOldShip": "SideWinder", "StoreShipID": 2 \}
```

## 8.24 ShipyardNew

When written: after a new ship has been purchased

### Parameters:

- ShipType
- ShipID

changed

```
{ "timestamp":"2016-07-21T14:36:38Z", "event":"ShipyardNew", "ShipType":"hauler", "ShipID":4 }
```

## 8.25 ShipyardSell

When Written: when selling a ship stored in the shipyard

### Parameters:

- ShipType: type of ship being sold
- SellShipID
- ShipPrice: sale price
- System: (if ship is in another system) name of system

changed

#### Example:

{ "timestamp":"2016-07-21T15:12:19Z", "event":"ShipyardSell", "ShipType":"Adder", "SellShipID":6, "ShipPrice":79027, "System":"Eranin" }

## 8.26 ShipyardTransfer

When Written: when requesting a ship at another station be transported to this station

#### Parameters:

- ShipType: type of ship
- ShipID
- System: where it isDistance: how far away
- TransferPrice: cost of transfer

changed

#### Example:

```
{ "timestamp":"2016-07-21T15:19:49Z", "event":"ShipyardTransfer", "ShipType":"SideWinder", "ShipID":7, "System":"Eranin", "Distance":85.639145, "TransferPrice":580 }
```

## 8.27 ShipyardSwap

When Written: when switching to another ship already stored at this station

#### Parameters:

- ShipType: type of ship being switched to
- ShipID
- StoreOldShip: (if storing old ship) type of ship being stored
- StoreShipID
- SellOldShip: (if selling old ship) type of ship being sold
- SellShipID

changed

```
{ "timestamp":"2016-07-21T14:36:06Z", "event":"ShipyardSwap", "ShipType":"sidewinder", "ShipID":10, "StoreOldShip":"Asp", "StoreShipID":2 }
```

# 9 Powerplay

## 9.1 PowerplayCollect

When written: when collecting powerplay commodities for delivery

### Parameters:

Power: name of powerType: type of commodityCount: number of units

#### Example:

```
{ "timestamp":"2016-06-10T14:32:03Z", "event":"PowerplayCollect", "Power":"Li Yong-Rui", "Type":"siriusfranchisepackage", "Count":10 }
```

## 9.2 PowerplayDefect

When written: when a player defects from one power to another

#### Parameters:

- FromPower
- ToPower

#### Example:

```
{ "timestamp":"2016-06-10T14:32:03Z", "event":"PowerplayDefect", "FromPower":"Zachary Hudson", "ToPower":"Li Yong-Rui" }
```

## 9.3 PowerplayDeliver

When written: when delivering powerplay commodities

#### Parameters:

- Power
- Type
- Count

#### Example:

```
{ "timestamp":"2016-06-10T14:32:03Z", "event":"PowerplayDeliver", "Power":"Li Yong-Rui", "Type":"siriusfranchisepackage", "Count":10 }
```

## 9.4 PowerplayFastTrack

When written: when paying to fast-track allocation of commodities

#### Parameters:

- Power
- Cost

## 9.5 PowerplayJoin

When written: when joining up with a power

### Parameters:

Power

#### Example:

{ "timestamp":"2016-06-10T14:32:03Z", "event":"PowerplayJoin", "Power":"Zachary Hudson" }

## 9.6 PowerplayLeave

When written: when leaving a power

### Parameters:

Power

#### Example:

{ "timestamp":"2016-06-10T14:32:03Z", "event":"PowerplayLeave", "Power":"Li Yong-Rui" }

## 9.7 PowerplaySalary

When written: when receiving salary payment from a power

#### Parameters:

- Power
- Amount

## 9.8 PowerplayVote

When written: when voting for a system expansion

#### Parameters:

- Power
- Votes
- System

## 9.9 PowerplayVoucher

When written: when receiving payment for powerplay combat

### Parameters:

- Power
- Systems:[name,name]

# 10 Other Events

## 10.1 CockpitBreached

When written: when cockpit canopy is breached

Parameters: none

Example:

{ "timestamp":"2016-06-10T14:32:03Z", "event":"CockpitBreached" }

## 10.2 CommitCrime

When written: when a crime is recorded against the player

#### Parameters:

- CrimeType
- Faction

Optional parameters (depending on crime)

- Victim
- Fine
- Bounty

#### Examples:

```
{ "timestamp":"2016-06-10T14:32:03Z", "event":"CommitCrime", "CrimeType":"assault", "Faction":"The Pilots Federation", "Victim":"Potapinski", "Bounty":210 } { "timestamp":"2016-06-10T14:32:03Z", "event":"CommitCrime", "CrimeType":"fireInNoFireZone", "Faction":"Jarildekald Public Industry", "Fine":100 }
```

## 10.3 DatalinkScan

When written: when scanning a data link

### Parameters:

• Message: message from data link

## 10.4 DockFighter

When written: when docking a fighter back with the mothership

Parameters: none

### Example:

{ "timestamp":"2016-06-10T14:32:03Z", "event":"DockFighter" }

### 10.5 DockSRV

When written: when docking an SRV with the ship

Parameters: none

## 10.6 FuelScoop

When written: when scooping fuel from a star

### Parameters:

• Scooped: tons fuel scooped

• Total: total fuel level after scooping

### Example:

```
\{ \text{"timestamp":"2016-06-10T14:32:03Z", "event":"FuelScoop", "Scooped":0.498700, "Total":16.000000 } \}
```

## 10.7 LaunchFighter

When written: when launching a fighter

#### Parameters:

- Loadout
- PlayerControlled: whether player is controlling the fighter from launch

```
{ "timestamp":"2016-06-10T14:32:03Z", "event":"LaunchFighter", "Loadout":"starter", "PlayerControlled":1 }
```

## 10.8 LaunchSRV

When written: deploying the SRV from a ship onto planet surface

#### Parameters:

Loadout

## 10.9 Promotion

When written: when the player's rank increases

Parameters: one of the following

Combat: new rankTrade: new rankExplore: new rankCQC: new rank

```
{ "timestamp":"2016-06-10T14:32:03Z", "event":"Promotion", "Explore":2 }
```

## 10.10 RebootRepair

When written: when the 'reboot repair' function is used

### Parameters:

• Modules: JSON array of names of modules repaired

#### Example:

```
{ "timestamp":"2016-06-10T14:32:03Z", "event":"RebootRepair", "Modules":[ "MainEngines", "TinyHardpoint1" ] }
```

## 10.11 ReceiveText

When written: when a text message is received from another player

#### Parameters:

- From
- Message

## 10.12 Resurrect

When written: when the player restarts after death

### Parameters:

- Option: the option selected on the insurance rebuy screen
- Cost: the price paid
- Bankrupt: whether the commander declared bankruptcy

## 10.13 SelfDestruct

When written: when the 'self destruct' function is used

Parameters: none

## 10.14 SendText

When written: when a text message is sent to another player

### Parameters:

- To
- Message

```
{ "timestamp":"2016-06-10T14:32:03Z", "event":"SendText", "To":"HRC-2", "Message":"zoom" }
```

## 10.15 Synthesis

When written: when synthesis is used to repair or rearm

### Parameters:

- Name: synthesis blueprint
- Materials: JSON object listing materials used and quantities

#### Example:

```
{ "timestamp":"2016-06-10T14:32:03Z", "event":"Synthesis", "Name":"Repair Basic", "Materials":{ "iron":2, "nickel":1 } }
```

## **10.16 USSDrop**

When written: when dropping from Supercruise at a USS

#### Parameters:

USSType: description of USSUSSThreat: threat level

#### Example:

```
{ "timestamp": "2016-06-10T14:32:03Z", "event": "USSDrop", "USSType": "Disrupted wake echoes", "USSThreat": 0}
```

## 10.17 VehicleSwitch

When written: when switching control between the main ship and a fighter

#### Parameters:

• To: (Mothership/Fighter)

#### Examples:

```
{ "timestamp":"2016-06-10T14:32:03Z", "event":"VehicleSwitch", "To":"Fighter" } { "timestamp":"2016-06-10T14:32:03Z", "event":"VehicleSwitch", "To":"Mothership" }
```

## 10.18 WingAdd

When written: another player has joined the wing

## Parameters:

Name

```
\{ "timestamp":"2016-06-10T14:32:03Z", "event":"WingAdd", "Name":"HRC-2" \}
```

# 10.19 WingJoin

When written: this player has joined a wing

## Parameters:

• Others: JSON array of other player names already in wing

## Example:

```
 \{ \, "timestamp":"2016-06-10T14:32:03Z", \, "event":"WingJoin", \, "Others":[ \, "HRC1" \, ] \, \}
```

## 10.20 WingLeave

When written: this player has left a wing

Parameters: none

```
{ "timestamp":"2016-06-10T14:32:03Z", "event":"WingLeave" }
```

# **Appendix - Features Not Yet Implemented**

Module transfer and storage

Hiring NPC pilots

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