

GL1tch API Specification

GL1TCH RANGE API Specification

Base URL: `/api/v1`

Note: Authentication is handled by Firebase. All endpoints assume a valid Firebase token is sent in the Authorization header.

User Profile

GET `/users/me`

Response:

```
{
  "id": "string",
  "displayName": "string",
  "email": "string",
  "country": "string",
  "billingInfo": {
    "cardNumber": "string", // Masked
    "expiryDate": "string"
  },
  "currentPlan": "string",
  "usage": {
    "teamServiceHoursUsed": "number",
    "teamServiceHoursRemaining": "number"
  }
}
```

PUT `/users/me`

Request:

```
{
  "displayName": "string",
  "email": "string",
  "country": "string"
}
```

Response:

```
{
  "id": "string",
  "displayName": "string",
  "email": "string",
  "country": "string"
}
```

Groups

GET /groups

Response:

```
[
  {
    "id": "string",
    "name": "string",
    "description": "string",
    "memberCount": "number",
    "joinCode": "string"
  }
]
```

POST /groups

Request:

```
{
  "name": "string",
  "description": "string"
}
```

Response:

```
{
  "id": "string",
  "name": "string",
  "description": "string",
}
```

```
"joinCode": "string"
}
```

POST /groups/join

Request:

```
{
  "joinCode": "string"
}
```

Response:

```
{
  "id": "string",
  "name": "string",
  "description": "string",
  "memberCount": "number"
}
```

DELETE /groups/{groupId}/leave

Response:

```
{
  "success": "boolean"
}
```

GET /groups/{groupId}/members

Response:

```
[
  {
    "id": "string",
    "displayName": "string",
    "email": "string"
  }
]
```

Events

GET /events

Response:

```
[
  {
    "id": "string",
    "title": "string",
    "description": "string",
    "date": "string",
    "startTime": "string",
    "endTime": "string",
    "category": "string",
    "eventType": "string",
    "hostedBy": "string",
    "capacity": "number",
    "registeredTeams": "number",
    "eventCode": "string",
    "eventLink": "string"
  }
]
```

GET /events/{eventId}

Response:

```
{
  "id": "string",
  "title": "string",
  "description": "string",
  "date": "string",
  "startTime": "string",
  "endTime": "string",
  "host": "string",
  "stats": {
    "participantCount": "number",
    "challengeCount": "number"
  },
  "teams": [
    {
      "id": "string",
      "name": "string",

```

```

        "score": "number",
        "solvedChallenges": "number",
        "lastFlag": "string"
    }
],
"challenges": [
    {
        "id": "string",
        "name": "string",
        "category": "string",
        "status": "string",
        "difficulty": "string",
        "solves": "number",
        "points": "number"
    }
],
"historicalScores": [
    {
        "teamId": "string",
        "teamName": "string",
        "scores": [
            {
                "time": "string",
                "score": "number"
            }
        ]
    }
],
"recentFlags": [
    {
        "team": "string",
        "flag": "string",
        "points": "number",
        "timestamp": "string"
    }
],
"challengeCategories": [
    {
        "name": "string",
        "count": "number"
    }
]
}

```

POST /events/{eventId}/register

Request:

```
{
  "teamId": "string" // Optional, for team events
}
```

Response:

```
{
  "success": "boolean",
  "message": "string"
}
```

DELETE /events/{eventId}/unregister

Response:

```
{
  "success": "boolean",
  "message": "string"
}
```

Training

GET /training/services

Response:

```
[
  {
    "id": "string",
    "name": "string",
    "category": "string",
    "difficulty": "string"
  }
]
```

POST /training/ranges

Request:

```
{
  "name": "string",
  "trainingType": "string",
  "groupId": "string", // Optional
  "teams": "number",
  "startTime": "string",
  "endTime": "string",
  "services": ["string"],
  "options": {
    "tickLength": "number",
    "flagLifetime": "number",
    "checkerRandomization": "boolean",
    "sourceNAT": "boolean"
  }
}
```

Response:

```
{
  "id": "string",
  "name": "string",
  "status": "string",
  "startTime": "string",
  "endTime": "string"
}
```

GET /training/ranges/{rangeId}

Response:

```
{
  "id": "string",
  "name": "string",
  "status": "string",
  "startTime": "string",
  "endTime": "string",
  "trainingType": "string",
  "groupId": "string",
  "teams": "number",
  "services": ["string"],
  "options": {
    "tickLength": "number",
```

```
    "flagLifetime": "number",
    "checkerRandomization": "boolean",
    "sourceNAT": "boolean"
  },
  "teamAssignments": [
    {
      "teamId": "string",
      "teamName": "string",
      "members": [
        {
          "id": "string",
          "displayName": "string"
        }
      ]
    }
  ]
}
```

POST /training/ranges/{rangeId}/deploy

Response:

```
{
  "success": "boolean",
  "message": "string",
  "secretKeys": [
    {
      "teamId": "string",
      "key": "string"
    }
  ]
}
```

POST /training/custom-services

Request:

```
{
  "name": "string",
  "description": "string",
  "category": "string",
  "difficulty": "string",
  "isPublic": "boolean",
```



```
"serviceFile": "File" // ZIP file
}
```

Response:

```
{
  "id": "string",
  "name": "string",
  "status": "string",
  "message": "string"
}
```

GET /training/custom-services

Response:

```
[
  {
    "id": "string",
    "name": "string",
    "description": "string",
    "category": "string",
    "difficulty": "string",
    "isPublic": "boolean",
    "status": "string"
  }
]
```

Player Stats

GET /stats/player

Response:

```
{
  "totalGamesPlayed": "number",
  "gamesWon": "number",
  "flagsLost": "number",
  "flagsGained": "number",
  "slaUptime": "number",
  "patchesApplied": "number",
  "avgTimeToPatch": "number",
}
```

```
"avgTimeToExploit": "number",
"totalBloodedServices": "number",
"languagesExposedTo": ["string"]
}
```

GET /stats/game/{gameId}

Response:

```
{
  "gameId": "string",
  "teams": [
    {
      "id": "string",
      "name": "string",
      "flagsLossGainRatio": "number",
      "slaUptimePercentage": "number",
      "patchesApplied": "number",
      "avgTimeToPatch": "number",
      "avgTimeToExploit": "number",
      "totalBloodedServices": "number"
    }
  ]
}
```

Scoreboard

GET /scoreboard/{eventId}

Response:

```
{
  "currentTick": "number",
  "maxTick": "number",
  "services": [
    {
      "id": "string",
      "name": "string",
      "victims": "number",
      "attackers": "number",
      "firstBlood": "string"
    }
  ],
}
```

```

"teams": [
  {
    "id": "string",
    "name": "string",
    "score": "number",
    "scoreDelta": "number",
    "offense": "number",
    "offenseDelta": "number",
    "defense": "number",
    "defenseDelta": "number",
    "sla": "number",
    "slaDelta": "number",
    "hosts": [
      {
        "offense": "number",
        "offenseDelta": "number",
        "defense": "number",
        "defenseDelta": "number",
        "sla": "number",
        "slaDelta": "number",
        "flagsGained": "number",
        "flagsGainedDelta": "number",
        "flagsLost": "number",
        "flagsLostDelta": "number",
        "failedChecks": {
          "level1": "number",
          "level2": "number",
          "level3": "number"
        },
        "status": "string",
        "comments": "string"
      }
    ],
    "historicalScores": [
      {
        "tick": "number",
        "score": "number"
      }
    ]
  }
]
}

```

Billing

GET /billing/plans

Response:

```
[
  {
    "id": "string",
    "name": "string",
    "price": "number",
    "teamServiceHours": "number"
  }
]
```

POST /billing/subscribe

Request:

```
{
  "planId": "string"
}
```

Response:

```
{
  "success": "boolean",
  "message": "string",
  "currentPlan": {
    "id": "string",
    "name": "string",
    "price": "number",
    "teamServiceHours": "number"
  }
}
```

GET /billing/usage

Response:

```
{
  "teamServiceHoursUsed": "number",
  "teamServiceHoursRemaining": "number",
  "billingPeriodStart": "string",
}
```

```
"billingPeriodEnd": "string"
}
```

POST /billing/payment-method

Request:

```
{
  "cardNumber": "string",
  "expiryDate": "string",
  "cvv": "string"
}
```

Response:

```
{
  "success": "boolean",
  "message": "string"
}
```

Support

POST /support/contact

Request:

```
{
  "name": "string",
  "email": "string",
  "subject": "string",
  "message": "string"
}
```

Response:

```
{
  "success": "boolean",
  "message": "string"
}
```

Admin (for future implementation)

GET /admin/events

Response:

```
[
  {
    "id": "string",
    "title": "string",
    "date": "string",
    "participantCount": "number",
    "status": "string"
  }
]
```

GET /admin/users

Response:

```
[
  {
    "id": "string",
    "displayName": "string",
    "email": "string",
    "createdAt": "string",
    "lastLogin": "string"
  }
]
```

GET /admin/training-ranges

Response:

```
[
  {
    "id": "string",
    "name": "string",
    "createdBy": "string",
    "startTime": "string",
    "endTime": "string",
    "status": "string"
  }
]
```

