

# SafePlay™ API Documentation

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## Overview

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The SafePlay API provides comprehensive endpoints for child safety monitoring, venue management, parent communication, and administrative functions. All endpoints follow RESTful conventions with consistent JSON responses and proper HTTP status codes.

**Base URL:** `https://your-domain.com/api`

**Version:** 1.4.1

**Authentication:** NextAuth.js with role-based access control

## Authentication

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### Session-Based Authentication

SafePlay uses NextAuth.js for session management with multiple authentication providers:

```
// Check authentication status
GET /api/auth/session
Response: {
  user: {
    id: string,
    email: string,
    role: "COMPANY_ADMIN" | "VENUE_ADMIN" | "PARENT",
    name: string
  },
  expires: string
}
```

## Endpoints

- `POST /api/auth/signup` - User registration with identity verification
- `POST /api/auth/signin` - Secure login with optional MFA
- `POST /api/auth/signout` - Session termination
- `GET /api/auth/user` - Current user information
- `POST /api/auth/verify-auto-signin` - Auto-signin verification

## Core API Endpoints

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### User Management

#### Get Current User

```
GET /api/auth/user
Authorization: Session required
```

**Response:**

```
{
  "id": "user_123",
  "email": "parent@example.com",
  "role": "PARENT",
  "name": "John Doe",
  "verificationStatus": "VERIFIED",
  "createdAt": "2025-01-13T00:00:00Z"
}
```

## Update User Profile

```
PUT /api/auth/user
Authorization: Session required
Content-Type: application/json
```

### Request Body:

```
{
  "name": "Updated Name",
  "phone": "+1234567890",
  "emergencyContact": {
    "name": "Emergency Contact",
    "phone": "+0987654321"
  }
}
```

## Children Management

### List Children

```
GET /api/children
Authorization: Parent or Venue Admin session required
```

### Response:

```
{
  "children": [
    {
      "id": "child_123",
      "name": "Emma Doe",
      "age": 8,
      "photoUrl": "https://i.pinimg.com/originals/3a/35/75/3a35759475cdd7dc4edf86137782d60b.jpg",
      "allergies": ["nuts", "dairy"],
      "medicalConditions": [],
      "parentId": "user_123",
      "isActive": true,
      "lastLocation": {
        "venueId": "venue_456",
        "zone": "play_area_1",
        "timestamp": "2025-01-13T14:30:00Z"
      }
    }
  ]
}
```

## Register New Child

```
POST /api/children
Authorization: Parent session required
Content-Type: application/json
```

### Request Body:

```
{
  "name": "Emma Doe",
  "dateOfBirth": "2016-05-15",
  "photoUrl": "https://i.pinimg.com/originals/88/43/06/88430667c332b1f52fbb40ccf062bf59.jpg",
  "allergies": ["nuts"],
  "medicalConditions": ["asthma"],
  "emergencyContacts": [
    {
      "name": "Jane Doe",
      "relationship": "Mother",
      "phone": "+1234567890"
    }
  ],
  "specialInstructions": "Requires inhaler during physical activity"
}
```

## Update Child Information

```
PUT /api/children/[id]
Authorization: Parent session required
Content-Type: application/json
```

## Get Child Location

```
GET /api/children/[id]/location
Authorization: Parent or Venue Admin session required
```

### Response:

```
{
  "childId": "child_123",
  "currentLocation": {
    "venueId": "venue_456",
    "zone": "play_area_1",
    "coordinates": { "x": 125, "y": 89 },
    "timestamp": "2025-01-13T14:30:00Z",
    "confidence": 0.95
  },
  "recentActivity": [
    {
      "zone": "entrance",
      "action": "CHECK_IN",
      "timestamp": "2025-01-13T13:00:00Z"
    }
  ]
}
```

## Check-in/Check-out System

### Process Check-in

```
POST /api/check-in-out
Authorization: Venue Admin session required
Content-Type: application/json
```

#### Request Body:

```
{
  "action": "CHECK_IN",
  "qrCode": "QR_CODE_DATA",
  "childId": "child_123",
  "venueId": "venue_456",
  "timestamp": "2025-01-13T13:00:00Z",
  "staffMemberId": "staff_789"
}
```

### Bulk Check-in/Check-out

```
POST /api/check-in-out/bulk
Authorization: Venue Admin session required
Content-Type: application/json
```

#### Request Body:

```
{
  "action": "CHECK_IN",
  "entries": [
    {
      "childId": "child_123",
      "qrCode": "QR_CODE_DATA_1"
    },
    {
      "childId": "child_456",
      "qrCode": "QR_CODE_DATA_2"
    }
  ],
  "venueId": "venue_456",
  "staffMemberId": "staff_789"
}
```

## Safety Alerts

### Get Active Alerts

```
GET /api/alerts
Authorization: Venue Admin session required
Query Parameters:
- priority: "LOW" | "MEDIUM" | "HIGH" | "CRITICAL"
- status: "ACTIVE" | "RESOLVED" | "ACKNOWLEDGED"
- venueId: string
```

#### Response:

```
{
  "alerts": [
    {
      "id": "alert_123",
      "type": "UNAUTHORIZED_AREA_ACCESS",
      "priority": "MEDIUM",
      "childId": "child_123",
      "venueId": "venue_456",
      "zone": "restricted_area",
      "message": "Child detected in restricted staff area",
      "timestamp": "2025-01-13T14:35:00Z",
      "status": "ACTIVE",
      "staffAssigned": "staff_789"
    }
  ],
  "summary": {
    "total": 1,
    "byPriority": {
      "LOW": 0,
      "MEDIUM": 1,
      "HIGH": 0,
      "CRITICAL": 0
    }
  }
}
```

## Create Safety Alert

```
POST /api/alerts
Authorization: System or Venue Admin session required
Content-Type: application/json
```

### Request Body:

```
{
  "type": "SAFETY_INCIDENT",
  "priority": "HIGH",
  "childId": "child_123",
  "venueId": "venue_456",
  "zone": "play_area_2",
  "message": "Child requires immediate attention",
  "metadata": {
    "cameraId": "cam_001",
    "confidence": 0.87,
    "autoGenerated": true
  }
}
```

## Update Alert Status

```
PUT /api/alerts/{id}
Authorization: Venue Admin session required
Content-Type: application/json
```

### Request Body:

```
{
  "status": "RESOLVED",
  "resolution": "Issue resolved - parent contacted and child assisted",
  "staffMemberId": "staff_789",
  "resolvedAt": "2025-01-13T14:45:00Z"
}
```

## Subscription Management

### Get Available Plans

```
GET /api/stripe/plans
Authorization: Parent session required
```

#### Response:

```
{
  "plans": [
    {
      "id": "basic_monthly",
      "name": "Basic Plan",
      "price": 2999,
      "currency": "usd",
      "interval": "month",
      "features": [
        "Up to 2 children",
        "Basic tracking",
        "Email notifications"
      ],
      "stripePriceId": "price_basic_monthly"
    },
    {
      "id": "premium_monthly",
      "name": "Premium Plan",
      "price": 4999,
      "currency": "usd",
      "interval": "month",
      "features": [
        "Up to 5 children",
        "Advanced AI monitoring",
        "Real-time alerts",
        "Photo sharing"
      ],
      "stripePriceId": "price_premium_monthly"
    }
  ]
}
```

### Create Subscription

```
POST /api/stripe/subscription
Authorization: Parent session required
Content-Type: application/json
```

#### Request Body:

```
{
  "planId": "premium_monthly",
  "paymentMethodId": "pm_1234567890",
  "billingAddress": {
    "line1": "123 Main St",
    "city": "Anytown",
    "state": "CA",
    "postalCode": "12345",
    "country": "US"
  }
}
```

## Update Subscription

```
PUT /api/stripe/subscription
Authorization: Parent session required
Content-Type: application/json
```

### Request Body:

```
{
  "newPlanId": "basic_monthly",
  "prorationBehavior": "create_prorations"
}
```

## Get Payment Methods

```
GET /api/stripe/payment-methods
Authorization: Parent session required
```

## Add Payment Method

```
POST /api/stripe/payment-methods
Authorization: Parent session required
Content-Type: application/json
```

### Request Body:

```
{
  "paymentMethodId": "pm_1234567890",
  "setAsDefault": true
}
```

## Venue Management

### Get Venue Information

```
GET /api/venues
Authorization: Venue Admin session required
```

### Response:

```
{
  "venues": [
    {
      "id": "venue_456",
      "name": "Happy Kids Play Center",
      "address": {
        "line1": "456 Play Street",
        "city": "Funtown",
        "state": "CA",
        "postalCode": "54321"
      },
      "capacity": 100,
      "currentOccupancy": 45,
      "status": "ACTIVE",
      "features": [
        "face_recognition",
        "real_time_tracking",
        "ai_monitoring"
      ],
      "operatingHours": {
        "monday": { "open": "09:00", "close": "18:00" },
        "tuesday": { "open": "09:00", "close": "18:00" }
      }
    }
  ]
}
```

## QR Code Management

### Generate QR Code

```
POST /api/qr-codes
Authorization: Venue Admin session required
Content-Type: application/json
```

#### Request Body:

```
{
  "familyId": "family_123",
  "venueId": "venue_456",
  "validUntil": "2025-12-31T23:59:59Z",
  "maxUses": 100,
  "metadata": {
    "generatedBy": "staff_789",
    "purpose": "family_access"
  }
}
```

### Validate QR Code

```
POST /api/qr-codes/validate
Authorization: Venue Admin session required
Content-Type: application/json
```

#### Request Body:



```
{
  "qrCodeData": "encrypted_qr_data",
  "venueId": "venue_456"
}
```

## Address Autocomplete

### Get Address Suggestions

```
GET /api/verification/address
Authorization: Authenticated session required
Query Parameters:
- query: string (minimum 3 characters)
- limit: number (default: 5)
- country: string (default: "US")
```

#### Response:

```
{
  "suggestions": [
    {
      "formatted": "123 Main Street, Anytown, CA 12345, USA",
      "line1": "123 Main Street",
      "city": "Anytown",
      "state": "CA",
      "postalCode": "12345",
      "country": "US",
      "placeId": "geoapify_place_123"
    }
  ]
}
```

## Analytics and Reporting

### Get Venue Analytics

```
GET /api/analytics/venues/[venueId]
Authorization: Venue Admin or Company Admin session required
Query Parameters:
- startDate: ISO date string
- endDate: ISO date string
- metrics: comma-separated list
```

### Get Safety Reports

```
GET /api/analytics/safety
Authorization: Venue Admin session required
Query Parameters:
- period: "daily" | "weekly" | "monthly"
- venueId: string
```

## Emergency Contacts

### Get Emergency Contacts

```
GET /api/emergency-contacts
Authorization: Parent or Venue Admin session required
```

### Update Emergency Contact

```
PUT /api/emergency-contacts/[id]
Authorization: Parent session required
Content-Type: application/json
```

#### Request Body:

```
{
  "name": "Updated Contact Name",
  "phone": "+1234567890",
  "relationship": "Guardian",
  "isPrimary": true
}
```

## Error Handling

### Standard Error Response

```
{
  "error": {
    "code": "VALIDATION_ERROR",
    "message": "Invalid request parameters",
    "details": [
      {
        "field": "email",
        "message": "Valid email address is required"
      }
    ]
  },
  "timestamp": "2025-01-13T14:30:00Z",
  "requestId": "req_123456"
}
```

### Common Error Codes

- `AUTHENTICATION_REQUIRED` (401) - Valid session required
- `INSUFFICIENT_PERMISSIONS` (403) - User lacks required permissions
- `RESOURCE_NOT_FOUND` (404) - Requested resource doesn't exist
- `VALIDATION_ERROR` (400) - Request validation failed
- `RATE_LIMIT_EXCEEDED` (429) - Too many requests
- `INTERNAL_SERVER_ERROR` (500) - Server error occurred

## Rate Limiting

- **General API calls:** 100 requests per minute per user

- **Authentication endpoints:** 10 requests per minute per IP
- **Real-time location updates:** 60 requests per minute per child
- **File uploads:** 10 requests per minute per user

## Webhooks

### Stripe Payment Webhooks

```
POST /api/stripe/webhooks
Content-Type: application/json
```

Handles Stripe payment events for subscription management.

### System Status

```
GET /api/health
```

#### Response:

```
{
  "status": "healthy",
  "timestamp": "2025-01-13T14:30:00Z",
  "version": "1.4.1",
  "services": {
    "database": "connected",
    "stripe": "operational",
    "aws": "operational",
    "geoapify": "operational"
  }
}
```

## SDK and Integration

### JavaScript SDK Example

```
import { SafePlayAPI } from '@safeplay/sdk';

const client = new SafePlayAPI({
  baseUrl: 'https://your-domain.com/api',
  sessionToken: 'your-session-token'
});

// Get child location
const location = await client.children.getLocation('child_123');

// Create safety alert
const alert = await client.alerts.create({
  type: 'SAFETY_INCIDENT',
  childId: 'child_123',
  message: 'Child needs assistance'
});
```

## Version Information

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**API Version:** 1.4.1

**Last Updated:** January 13, 2025

**Compatibility:** Backward compatible with v1.4.x

**Documentation:** Complete and up-to-date

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For technical support or API questions, contact the SafePlay development team or refer to the comprehensive documentation at [/docs](#) .