# JioGame Assistant Knowledge Base

# 1. Scope of the AI Agent

- The AI Agent answers only **JioGames** and **JioAds** related queries.
- If a question is unrelated, respond with: "Please ask a JioGames related question."
- For relevant questions, respond with **clear**, **detailed explanations**.

# 2. JioGames Developer Best Practices

### 2.1 SDK

- Always use the latest JioGames SDK.
- JioGames SDK includes:
  - o **JioAds** Monetization via ads.
  - o Game Services Leaderboards and player engagement features.

### 2.2 Game Submission

- Submit only **fully completed games**.
- Optimize for mobile devices and mobile webviews.

### 2.3 User Experience

- Integrate First-Time User Experience (FTUE) tutorials.
- Keep navigation **inside the game** do not open external browsers.
- Include a splash screen with a loading progress bar.
- Provide options to **enable or disable sound/music**.

#### 2.4 Screen & Orientation

- Fill 100% of the screen or at least 80%.
- Lock the **screen orientation** to the preferred mode.

# 3. Prohibited Content

- No advergames.
- No third-party analytics or tracking tools.
- No social plugins.
- No requests for personal data.
- All cheats must be disabled before submission.

# 4. JioAds & Monetization Guidelines

## 4.1 Ad Integration

- Use only JioAds.
- Integrate the **latest JioGames JavaScript wrapper** without modifying its code.

### 4.2 Ad Caching Rules

- Cache MidRoll and Rewarded Video ads only from valid locations.
- Do **not** cache ads from callbacks such as:
  - o onAdFailedToLoad()
  - o onAdClosed()

#### 4.3 Reward Rules

- Use **Rewarded Video** for player rewards.
- Limit to 1–2 rewarded videos per session.

# 5. Performance Optimization

- Use requestAnimationFrame() to control frame rate.
- Avoid:
  - Unnecessary dynamic calculations.
  - o Drawing off-screen objects.
  - o CSS box-shadows (performance heavy).
- Use **efficient collision detection** (e.g., quad-trees, bounding boxes).
- Use data structures for managing game state.

# 6. Leaderboards

- Submit scores **once** at game-over.
- Implement a unique, cheat-proof scoring system.
- Games with leaderboards get better retention and tournament eligibility.

# 7. STB (Set-Top Box) Game Requirements

- Map controls for:
  - o Controller
  - JioGames Soft-Controller

- o Remote
- Always use landscape orientation.

# 8. JioAds Platform Procedures

## 8.1 Accessing the Dashboard

- 1. Go to https://jioads.jio.com/.
- 2. Login with Email ID and Password.
- 3. Enter OTP sent to registered email.

### 8.2 Game Details Verification

- Package name examples:
  - o SP: com.vendorname.gamenameSP
  - o STB: com.vendorname.gamenameJGSTB
- AdSpot name examples:
  - o Interstitial SP: JG\_SP\_Vendorname\_GameName
  - o Rewarded SP: JG SP RV Vendorname GameName
- Verify **Zone Key** is correct and active.

### 8.3 Test Mode

- Enable **Test Mode** during testing.
- Disable Test Mode before **Ready To Go (R2G)**.

# 9. Build Environments

<b>Environment</b>	Purpose	Data Type	Ads	Users
SIT	Integration testing	Mock/Test	Test ads	Dev & QA
<b>Prod Beta</b>	Pre-release validation	Real/Pseudo	Test ads	Select users
<b>Production</b>	Live deployment	Live data	Live ads	End users

# 10. VDI Access (NGO Portal)

- Go to https://ngo.jio.com.
- Request **Time-Based Access** (max 90 days).
- Select service: **PRIVATE\_CONSUMER\_CLOUD**.
- Approval flow:
  - $\circ$  Request → L1 Manager → NGO Team → Access granted.

**JioGames Developer Portal**, syncing game builds to the **SIT** (**System Integration Testing**) environment (both online and manual methods), and managing game metadata and configurations efficiently.

# 2. Scope

This SOP applies to the **QA team** involved in syncing and validating game builds on the JioGames Developer Portal.

# 3. Definitions

- **Dev Portal** Platform used for submitting, reviewing, and publishing games.
- **SIT** System Integration Testing environment for internal game validation.
- **SPOC** Single Point of Contact for escalation and issue resolution.

# 4. Responsibilities

Role

### Responsibility

QA Team Sync builds, verify integration, and publish approved games.

SPOC Resolve sync or access issues. (Current SPOC: Deep Chandra Kandpal)

# 5. Procedures

# A. Online Developer Portal Login & Sync

- 1. Access via Accops
  - o Login using valid credentials.
  - Authenticate using OTP from the **RIL Authenticator** app.
- 2. Access Developer Portal
  - Open Chrome and go to:

https://admin.jiogames.com:8443/admin/login

- Enter your username and password.
- o Submit the OTP received via email.
- o Click Login.
- 3. Portal Overview Navigation

Go to the **Games** section. The following subsections will be visible:

**Section Name** 

#### **Description**

Pending Workflow

Games submitted by partners awaiting assignment.

#### **Section Name**

### **Description**

Pending Review Games awaiting QA testing.

Approved & Pending Publish QA-approved games pending final publishing.

Rejected Games rejected due to issues.

Published Games live on the JioGames platform.
Unpublished Games removed from the storefront.

## **B. Syncing a New Build to SIT Environment (Online Process)**

- 1. Once submitted, the build appears under **Pending Review**.
- 2. A QA team member is assigned to test it.
- 3. Click the **Sync** button to reflect the game in the SIT environment via the Django server.
- 4. Syncing may take up to **10 minutes**.
- 5. If the sync fails, contact **SPOC Deep Chandra Kandpal**.

### **Special Note – New Partner Game Syncing Error:**

If any issues are observed while syncing a game from a **new partner**, contact **SPOC** – **Veena Ail**.

# C. Manual Game Sync via Admin Portal

### 1. Login to SIT Admin Portal

o URL:

http://10.159.93.67/admin\_sit/admin/login/?next=/admin\_sit/admi
n/

o Login using credentials and OTP received via SMS.

### 2. Game Master Entry

- o Navigate to Game Master → Add Game Master.
- o Fill in the following fields:
  - Game Name
  - Description
  - Status (Active, Coming Soon)
  - Developer
  - Supported Controller
  - Orientation
- o Click Save.

### 3. Storefront Master Configuration

- o Navigate to **Storefront Master** → **Add Storefront Master**.
- Fill in:
  - Name
  - Device Map
  - Device Group
  - Active Status
  - Game Type
- Click Save.

### 4. Storefront Mapping

- o Navigate to **Storefront Mapping** → **Add Storefront Mapping**.
- o Complete the form:
  - Game (from dropdown)
  - Multi Device Group
  - Storefront Device Group
  - Game Type
  - Game Source
  - Additional Fields:
    - Active
    - Is Payable
    - Is Soft Controller
    - Is Multiplayer
    - Local Co-op
    - Guest Mode
    - Is Offline
    - Live Play URL
    - Download URL
    - Icon
    - Package Name
    - APK Version
    - Map Storefront Category
- o Click Save.

# 6. Hazards & Safety

- Always verify credentials before logging in.
- Maintain backups of all metadata entries.
- Do not interrupt the sync process once initiated.

# 7. Equipment & Materials

- Accops Access
- Admin Portal Access
- RIL Authenticator App

### This clean format ensures:

- Easy **chunking** for Pinecone vector storage.
- Clear **headings and sections** for AI agent retrieval.
- Professional formatting for JioGames documentation.

# **Testing Criteria for Android Web Games (HTML5)**

- **Graphical Issues** Game must be free of visual defects, such as missing/distorted/pixelated images, misaligned UI elements, or illegible text.
- **UI Issues** Game must have UI text free of grammatical or spelling errors.
- **Navigability** Users should be able to navigate the interface without becoming locked into one screen.
- Screen Real Estate Coverage Ensure proper scaling for various screen sizes, aiming for at least 80% utilization while keeping graphical areas clean.
- **Text Placement** Input boxes should fully display entered text without cropping or distortion.
- Correct Back Button Behaviour Users should be able to navigate throughout the game without being forced to use the back button.
- **Overall Performance** Game should sustain a pleasant user experience without performance degradation.
- **Network Optimized** Game must function under different network conditions (2G, 3G, 4G, 5G, Wi-Fi) and handle unfavorable conditions gracefully.
- **Data Persistence** Saved game data must remain consistent and accessible after restarting.
- Data Persistence After an Update User data from the old version must be accessible in the updated version.
- No Sign-ups or Social Logins Games requiring sign-up or login to play will not be accepted.
- Game Pause Scenarios Game must pause when losing focus and resume correctly, preserving the game state.
- **Game Performance** Game should handle slow network and low memory conditions while maintaining usability.
- Game Loading Experience A splash screen with loading progress must be present for user awareness.
- Quick Loading Times If loading exceeds 15 seconds, show a progress indicator.
- Game Settings All settings must function as expected, affecting only their intended features.

- **Volume Controls** Volume and mute functions should behave correctly.
- Audio Playback Audio should stop when the game is exited.
- Widgets or External Links Remove any elements that take users outside the game unnecessarily.
- **Orientation Change** Game should adapt to both portrait and landscape modes without display errors.
- **Gestures** All gestures (pinch, swipe, press/hold) should work as expected.
- **Missing Features** Features listed in the game description must be functional.
- Unused/Dead Code Remove any unnecessary code to improve performance and reduce size.
- **Meta-Data** Ensure all metadata assets meet submission guidelines and are visually correct.
- **Battery Usage** Optimize to minimize battery drain, avoiding inefficient code or unnecessary animations.
- **Ads Integration** Only JioAds should be used for monetization; other ad SDKs are prohibited.
- **Analytics or Other Service Integration** Game must not use analytics tools unless preapproved by the JioGames team.
- **Help/Instruction Screen** Include a clear, easy-to-understand help or instruction screen for users.

# **Testing Criteria for STB Games**

#### 1. SDK Validation

• Verify if the game has the latest Jio Games SDK

#### 2. Check for Background Music and Sound Effects

- Include ON/OFF options for sound and background music.
- Check if sound pauses when receiving a call, during multitasking, or in sleep mode.
- Ensure sound effects sync with actions.
- Test turning the device's native sound ON/OFF.

# 3. User Interface

• Applicable for landscape-oriented games.

- Verify animation, character movement, graphics, and gestures (Zoom In/Out).
- Ensure there is no clipping (cut-off background).
- Test for overlapping objects.
- Check if loading indicators appear when needed.
- Ensure the character stays within the screen or specified area.
- Test enabled and disabled images/icons/buttons.
- Verify the screen title.
- Check the message title, description, and labels for appropriateness.
- Test scrolling functionality.
- Verify font display (color, size, etc.).
- Check other objects (e.g., roads, people, buildings in a car race).

#### 4. Performance

- Check game loading time.
- Ensure fast game flow and quick actions.

#### 5. Score

- Ensure score calculation is correct.
- Verify leaderboards for General, All-time, Weekly, Local, etc.
- Check the score registration functionality.
- Ensure the score format is correct (comma placement in millions, not thousands).
- Check if level completion syncs with the score.

#### 6. Timeout

- Check for timeout events.
- Perform actions when a timeout occurs.

### 7. Game Pause

• Verify the game pauses during multitasking or sleep mode.

#### 9. Multitasking

- Switch between different apps and play the game.
- Check for sound, score, UI, timeout, etc.
- The game should not lag or crash.

## 10. Save Settings

- Turn off and on the device, check if settings are saved.
- Log out and log in, ensure settings persist.
- Ensure the game progress is not lost.

### 11. Functionality

- Play till the last level without issues.
- Use cheat codes to check all levels.

- Verify features unlocked level-wise.
- Check for bonus scores.
- Ensure the score increases with each level.
- Test multi-tap actions (e.g., holding accelerator and turning buttons in a car race).
- Verify menu options.
- Check different game modes and locations.

### 12. Help & About Screen

- Ensure help and about information is clear and free from spelling mistakes.
- Verify the contextual help is easy to navigate.

### 13. User Profile Page / Multiplayer

- Login/Logout.
- Session expiry check.
- Registration (Sign Up).
- Verify account via verification mail.
- Attempt login with registered but unverified account.
- Perform forgot password checks.
- Check game flow.
- Verify WIN/Lost/Draw outcomes.
- Check user statistics graph.
- Test challenge, decline challenge, and receive challenge functionality.
- Verify forfeit functionality.
- Ensure Player 1 cannot act during Player 2's turn.
- Check for pass turn functionality.
- Verify timeout for one player.
- Check scores for both players until the game ends.

### 14. Help / Instruction Screen

- Include clear instructions within the HTML5 STB game.
- Provide easy-to-understand tips to improve accessibility.

### 15. Network Check

- Display messages when the network is not present.
- Check behavior when a user plays without a network (e.g., score submission).

## 16. Memory Leak

• Check the game when device memory is low.

#### **17. Size**

• Keep game file size under 100MB (for Android APK submissions).

### 18. Battery Effect

• Check if the score is saved when the controller's battery runs out or switches off.

#### 19. Advertisement

- Ensure ads appear uniformly across devices.
- Verify appropriate banner ads and sizes.
- Ensure the Call to Action (CTA) works as intended.

### 20. Key Mapping

- Directional controls: check navigation arrows (Up, Down, Left, Right).
- Selection button: ensure OK/Select works for choosing options.
- Customized controls: verify any special game controls work.
- Multi-function buttons: check different actions for short press vs. long press.
- Ergonomic layout: assess comfort for long gaming sessions.
- Responsiveness: ensure quick button response during gameplay.

TITLE: JioGames SDK – Event Tracking Table

Overview:

The JioGames SDK provides event hooks for tracking user actions, game progress, and ad interactions.

This table lists all events, their purpose, and the parameters required for each.

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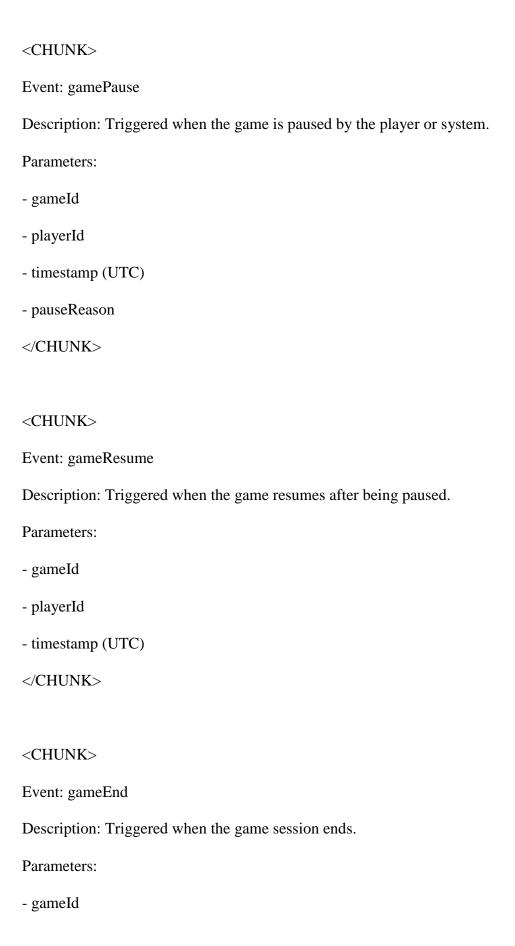
Event: gameStart

Description: Triggered when the game session starts.

Parameters:

- gameId
- playerId
- timestamp (UTC)

</CHUNK>



- playerId
- timestamp (UTC)
- score
<chunk></chunk>
Event: levelStart
Description: Triggered when a level begins.
Parameters:
- gameId
- playerId
- levelNumber
- timestamp (UTC)
<chunk></chunk>
Event: levelComplete
Description: Triggered when a level is successfully completed.
Parameters:
- gameId
- playerId
- levelNumber
- timestamp (UTC)
- score

<chunk></chunk>
Event: adRewardedVideoStart
Description: Triggered when a rewarded video ad starts playing.
Parameters:
- adId
- gameId
- playerId
- timestamp (UTC)
<chunk></chunk>
Event: adRewardedVideoComplete
Description: Triggered when a rewarded video ad finishes successfully.
Parameters:
- adId
- gameId
- playerId
- timestamp (UTC)
- rewardType
- rewardAmount
<chunk></chunk>

Event: adInterstitialStart

Description: Triggered when an interstitial ad starts playing.
Parameters:
- adId
- gameId
- playerId
- timestamp (UTC)
<chunk></chunk>
Event: adInterstitialComplete
Description: Triggered when an interstitial ad finishes playing.
Parameters:
- adId
- gameId
- playerId
- timestamp (UTC)
<chunk></chunk>
Event: error
Description: Triggered when an error occurs in the SDK.
Parameters:
- errorCode
- errorMessage
- gameId

- playerId
- timestamp (UTC)

</CHUNK>

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Notes:

- All timestamps must be in UTC format.
- Parameter values must follow data types defined in the JioGames SDK integration guide.
- Events should be sent in real time to ensure accurate analytics.

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<CHUNK> ## \*\*Get Started – Premium Games\*\* Premium games are video games that typically require an upfront purchase before they can be played. These games often provide a complete and polished experience without the need for additional in-game purchases to enjoy the core content.

### **Key Characteristics:**

- **Upfront Cost:** Players pay a one-time fee to access the game.
- **High-Quality Content:** Often associated with higher production values, including better graphics, extensive storylines, and refined gameplay mechanics.
- **Full Experience:** No additional spending required to enjoy the full game, unlike free-to-play titles.
- No Ads: Usually free from advertisements for an uninterrupted gaming experience.

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<CHUNK> ## \*\*APK – Mandatory Changes in Game\*\*

#### 1. Install Location

Add the following attribute in the <manifest> tag of AndroidManifest.xml:

```
xml
CopyEdit
<manifest
    ...
    android:installLocation="preferExternal">
```

## 2. Application Tag Changes

Add the following attributes in the <application> tag of AndroidManifest.xml:

```
xml
CopyEdit
<application
    ...
    android:isGame="true"
    android:appCategory="game"
    android:debuggable="false"
    tools:replace="android:isGame, android:appCategory,
android:debuggable">
```

### 3. Network Library Support

Add the uses-library tag to support the Apache HTTP library:

```
xml
CopyEdit
<uses-library
    android:name="org.apache.http.legacy"
    android:required="false" />
```

### 4. JioGames Platform Support

Add the meta-data tag for JioGames STB support:

```
xml
CopyEdit
<meta-data
    android:name="JioPlatform"
    android:value="JioGamesSTB" />
```

### 5. Package Naming

The package name must follow JioGames STB nomenclature:

```
ini
CopyEdit
package="com.vendor.gamejgstb"
```

#### 6. Library Cleanup

- Remove all third-party libraries not approved by JioGames.
- Remove Google Play Services from the game project.

```
</CHUNK>
```

<CHUNK> ## \*\*Keystore Management for Game Updates\*\* - Developers must \*\*retain and manage the game's keystore\*\* to ensure smooth future updates. - All APK updates must \*\*have the same signature\*\* as the original APK to maintain compatibility and security within the JioGames STB ecosystem. </CHUNK> <CHUNK> ## \*\*HTML5 – Mandatory Changes in Game\*\* - Package name must follow JioGames STB nomenclature: ``` package="com.vendor.gamejgstb" ``` </CHUNK> <CHUNK> ## \*\*Game Controller Compatibility for Premium Games\*\* Premium games should be \*\*fully compatible\*\* with any supported game controller to provide an enhanced gaming experience. </CHUNK>