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Revisions

v1.4	9/7/2018	Analysis for all game content unlocked version. Explains how stageCompleted metadata works.
v1.3	20/6/2018	Added unlock campaign feature configuration.
v1.2	31/5/2018	Changed CloudSaveService Save and Load name parameter to savegameName parameter to clarify it is the name of the savegame and not the name of the user.
v1.1	23/5/2018	Updated all API to use specific callbacks. Changed RemoteConfig to be sync, and better documentation of what each method do. Also now config should be cached as soon as possible on your side. Added examples of key/value configurations. Added links to c# references for DateTime and Timestamp formats to better understand how to configure the offers.
v1.0	17/5/2018	First version of the document

Objective

In order to support most of the requested features we need some changes on the East2West solution. So, this document will try to explain what we need and how we need it for each feature so we could work together.

We will order the features in terms of how quick and easy they are to implement so we could deliver them one by one so you could test how they perform in terms of players' feedback and revenue.

Feature: Better Rating

We already support asking for rating in the game in Google Play and iTunes by asking the player to leave a feedback after some time of playing the game and after a specific Stage.

So, in order to make this feature available to you, we need a way to get the feedback URL of each channel. That is something that could be configured on your side completely with a few changes.

Extend the E2W wrapper with methods like:

```java
public interface RatingService {
   /* Returns true if rating system is available, false otherwise
    * (in case you don't have the url for the current channel,
    * you can return false) */
   boolean IsRatingAvailable();

   /* Returns the URL of the rating form for the current channel */
   String GetRatingURL();
}
```

Both suggested methods should be configured and implemented on your side the way you want, for example, adding configuration to the AndroidManifest.xml, as you do for the channel name, and then returning that to us.

The main thing here is that we are going to ask you about the URL like we did with other stuff like the login, etc.

[EASY]

Feature: Remote Configuration & Offers

Currently, the only remote configuration interaction we have with your servers is for asking the list of IAPs and their prices.

Inside the game we support more stuff for configuring remotely and we use remote services like Firebase, etc, to configure the game. Some examples of what we configure are: showing ads or not, a list of possible offers, in which stage show the rating request, etc.

In order to allow you to configure all the remote config we have, first we have to explain the format we use, what each value is for, and then you have to extend your server to support this kind of configuration.

Even though we have the list of available IAPs in the remote configuration, what we don't have is the list of prices for each IAP, that is requested to the store itself, like Google Play or iTunes. I believe we will have to keep the same idea, so we would have to ask for the configuration and, separately, the list of iaps with prices to simplify behaviour changes in the game.

So, some proposed methods for you to implement are:

```
public interface RemoteConfigurationService {
  /* Attempts to get the list of IAPs with their description (price,
   * name, etc). */
  List<String> GetIAPs();

  /* Returns all the values with keys starting with the
   * specified prefix. For example "offer_special_hero1" will return
   * an offer "offer_special_hero11" and "offer_special_hero12". This
   * is mainly used to get the list of available offers. */
  List<String> GetRemoteValuesWithPrefix(String prefix);

  /* Returns only one specific value for the specified key. Used for
   * example to get unique values like ads_enabled. In this case, if
   * we ask for "offer_special_credits1" it will return only that value
   * and never an offer "offer_special_credits11" (it has the same prefix) */
  String GetRemoteValue(String key);
}
```

The idea is you ask for all this remote config as soon as the app starts and you cache it on your side. You always return the latest cached version of the configuration or empty strings if you couldn't request it from the server yet (only the first time).

The IAPs list should be the same format we are using right now with you, that is not a problem, the main difference is we are going to delegate the server interaction to the East2West wrapper instead of doing it ourselves. We are still responsible of processing the JSON result. In that way, you could have more control of which server to request info from, and if you want to send extra parameters or headers with the request to be able to do A/B tests.

For example, we normally ask for all the special offers in the following way:

```
var offers = GetRemoteValuesWithPrefix("offer_special_");
```

That should return a list of strings with the JSONs of each value identified by keys starting with "offer_special_" (the formats are explained later).

This is a similar API behaviour to how [Firebase works](#) and would make so much easier for us to integrate.

The Remote Configuration format is explained [here](#). Inside that configuration, there are the offers, explained [here](#).

From our side, what we do is try to override the default configuration (shipped with the game) with remote values. If don't find a remote value when overriding, we use the default one. For this reason, we suggest you to store the last remote configuration in a local store (from the android side) and return that one if you failed to read a new one from the server, some kind of cache.

If you implement [A/B testing](#) as suggested, different remote configuration values should be returned to user given the corresponding user group.

[HARD]

Feature: Cloud Save

First of all, cloud save is related to an account in a service where we can write and read data. In Google, we are using Google Play Games Services which allow saving data for a user signed in Google Play in the game. For iOS, we are using iCloud and using the iCloud account of the player.

In order to support that in China, we have to find one or more services (for different channels) and provide both sign in and cloud save. I believe the best way is you handle the middle layer in the East2West wrapper like we did with everything else and we depend on that layer like we do with Google Play and iCloud.

So the suggested API for E2W:

```java
public interface CloudSaveService {
  /* Registers the callback */
  void SetCallback(CloudSaveCallback callback);

  /* Starts a sign in attempt, delegating completely to the
   * wrapper and the current service (this will probably show
   * the sign in window for that service).*/
  void Login();

  /* Signs out from the service. Cloud save will be
   * disabled after this until a new sign in. */
  void Logout();

  /* Starts a read data attempt at the specified file name.
   * It should call the callback with status ok or error,
   * and with the file contents (probably a json). */
  void Load(String savegameName);

  /* Starts a write data attempt at the specified file name,
   * it should try to write the specified data and then call
   * the callback with the status code ok or error depending
   * what happened. */
  void Save(String savegameName, String data);

}

public interface CloudSaveCallback {
  /* Called on login successful */
  void OnLoginSuccessful();
```

```
    /* Called on login failed */
    void OnLoginFailed(int status);

    /* Called on load successful */
    void OnLoadSuccessful(String data);

    /* Called on load failed */
    void OnLoadFailed(int status);

    /* Called on save successful */
    void OnSaveSuccessful();

    /* Called on save failed */
    void OnSaveFailed(int status);

}
```

Since most of the methods require an interaction with a server, all of the would be async, that's why I propose using callbacks for everything.

In that way, you could then create the specific implementation for each service you want to use for each channel and we should be able to support it.

About authentication, with Google Play, what we normally do is to automatically try to sign in the first time the game starts. If the player chooses to not sign in or sings out at some point, we save that and we don't try again an automatic sign in until the player goes to the Settings and signs in manually.

However, what we are going to do for E2W, to simplify, is add an extra button to the Settings screen with a custom login/logout of the cloud service (similar to what we do with iCloud for iOS). If the player was signed in once, then we will try to auto sign in each time the player opens the game until he signs out.

In the case of WeChat/QQ, we are already have login/logout implemented. However, if they provide a way to store data, and you want to use that service, we could disable the extra cloud button from the settings screen for that channel, and you only have to implement the load/save methods using WeChat/QQ store data service and the game will almost not know about that.

[MEDIUM]

Feature: Rewarded Videos

This basic version of video ads provides some credits as reward for watching a video.

Extend the East2West wrapper with these methods:

```java
public interface VideoAdCallback {
   /* Called when video was completed and we have to reward the player.*/
   void OnVideoCompleted();

   /* Called if the video failed or the user canceled, or something.
    * We will not provide the reward in this case. */
   void OnVideoFailed(int status);
}

public interface RewardedVideoService {
   /* Returns whether there is a video available (consider caching
    * this value since we might check it frequently). Also, it should
    * return false if the current channel doesn't support ads. */
   boolean IsVideoAdAvailable();

   /* Shows the video Ad if available, and call the callback once the video
    * was completed with proper status code (video completed, video
    * failed, video canceled, etc) so we can provide the rewards. */
   void ShowVideoAd();

   /* Registers the callback for the video ads. */
   void SetVideoAdCallback(VideoAdCallback callback);
}
```

In any case, the main thing is you have a consistent API between all the channels and also to allow us in some way to check if ads are available, to show a video ad and to know if the video ad was completed properly in order to give the player the reward.

With the Remote Configuration you could change the rewards (coins) for watching a video, it is explained in the last section of the document.

[EASY]

Feature: Custom Unlock screen

First of all, the price was always customizable from your side as it is an IAP like the others.

There are four variables to configure how the unlock campaign screen behave. We ask for them with GetRemoteValue() using remote configuration. You can override them there and we will update the value ingame. These new configurations are:

`campaign_locked - boolean` : allows you to turn on or off the lock screen. (true by default)
`campaign_lock_stage - int` : in which stage the lock screen is shown. (stage 4 by default)
`campaign_unlocked_by_purchases - boolean` : if any other purchase unlock the campaign also (true by default)
`campaign_unlocked_by_stage_completed - boolean` : if campaign is unlocked if a player already completed the stage (in case you move the lock). (true by default)

Here is an example configuration:

```
"configuration" : {
  "campaign_locked" : "true",
  "campaign_lock_stage" : "4",
  "campaign_unlocked_by_purchases" : "true",
  "campaign_unlocked_by_stage_completed" : "true"
}
```

You can also change the credits reward by overriding the `offer_content_campaign` inside the `contentOffers` in the remote configuration:

```
"contentOffers" : [
  {
    "identifier":"offer_content_campaign",
    "iapIdentifier":"com.ironhidegames.ironmarines.unlock_campaign",
    "offerType":0,
    "offerCost":{
       "currencyType":0,
       "cost":0
    },
    "rewards":[
       {
          "identifier":"content_campaign",
          "rewardType":5,
          "count":1
       },
```

```
            {
                "identifier":"offer_credits_pack1",
                "rewardType":2,
                "count":750
            }
        ],
        "metadata": {

        }
    }
]
```

[EASY]

Feature: A/B Testing

The first way to do A/B testing is, since you have different channels, I believe you could do A/B testing configuring differently each channel and see the differences. That could be one way of doing A/B testing.

The second way is to use the same channel and make changes in time, and then compare, so, try with A for a week and then B for a week, multiply by users during week, etc, compare.

The third way is to do the A/B testing in the same channel. For that case, we need to first make the proposed Remote Configuration changes and after that, it will be almost completely on your side.

What Firebase does to be able to do A/B testing is assigning a user percentile from the app side and then send that when requesting data like the remote configuration. Then the server, depending the percentile assigned returns the proper configuration.

So you could, from the East2West wrapper, create that random percentile the first time the user start the app (if it wasn't created) and then use it for all request to your server. So you could gather the config from a server for us the way you want, using the custom parameters you want.

This is just an idea, we could talk if there is a better API for the remote config. This depends on adding support to Remote Configuration.

[DEPENDS ON RemoteConfiguration FEATURE]

Feature: All content unlocked version

Requested feature

"Some channels want to pay to play version, this version just hide store interface, if user move to store because of insufficient icon, also stop them go in. heroes will be given after each levels until all heroes are given."

Analysis

The idea I believe it to have an unlocked version of the game, with all content available by playing, similar to the KR version in humble bundle or the PC version.

In this version:
- All heroes must be unlocked by completing stages.
- There is no credits store (no + button)
- If not enough credits for buying player powers then it doesn't show the dialog to go to the store.

The main problem here is we have to change the interface in order to support not showing the credits store in the main interface (the bottom interface in the map).

Also, we have to have a configuration in all heroes to say in which stage they are unlocked and made that dynamic depending the kind of build.

I believe we have two ways to do that, one is to start adding more remote configuration so you could decide if you want the unlocked version or not. The other way is we create two different builds with that hardcoded in the APK and you deploy each one in each store depending what you want.

This is a medium difficulty feature since we have to change some code in order to allow heroes to be unlocked in stages and adapt the map hud depending the store is available or not.

[MEDIUM]

Appendix

Status Codes

There are several methods in the API proposal that expect a status code (int) to specify if the operation was successful or not. I suppose we could assume something like:

- `0 - no error`
- `1 - generic error`

And then we can start expanding as we need to identify specific cases we want to react in a different way. Only if we need.

Remote Configuration Format

We are going to explain the list of keys we could ask for remote config and the possible values.

- `credits_pack_most_popular: string` - the identifier of the credits pack that should have the most popular badge.
- `credits_pack_best_value: string` - the identifier of the credits pack that should have the best value badge.
- `ads_enabled : bool` – if ads are enabled or not (this is to temporary disable the ads from remote config if something is not working).
- `ads_map_button_enabled : bool` – To enable/disable the ads button in the map itself (ads inside the credits store will continue working).
- `ratingSettings : string` – A JSON with the configuration for ratings setting (format explained later).
- `"iaps" : string` – a JSON with a list of available IAP identifiers (format explained later)
- `specialOffer : object` – a JSON with the data of the offer, explained here.
- `heroSale : object` – a JSON with the configuration for showing heroes in sale in the hero room (format explained later).

Rating settings

These are the values to configure the behaviour of the rating dialog.

A JSON with the format:

```
"ratingSettings" : {
    "minStage" : 4,
    "minTimeAfterLaunchInMinutes" : 1,
    "minTimeAfterPostponeInMinutes" : 180
}
```

Where:
- `"minStage" : int` – We starts showing the rating dialog after this stage, never before. Could be 0 to disable this logic.
- `"minTimeAfterLaunchInMinutes" : int` – Time in minutes to avoid showing the dialog after the player open the game.
- `"minTimeAfterPostponeInMinutes" : int` – Time in minutes we avoid showing the dialog again after the player pressed "Later" in the dialog.

IAP identifiers list

This is the list of available IAP identifiers, we use it to then request the Store for product information on each IAP, and also to disable game products, if one IAP is not here, then we don't show the corresponding product in the game. Example of configuration:

```
"iaps" : [
    "com.ironhidegames.ironmarines.hero_mercenary",
    "com.ironhidegames.ironmarines.hero_mecha",
    "com.ironhidegames.ironmarines.hero_shatra",
    "com.ironhidegames.ironmarines.hero_dr_graff",
    "com.ironhidegames.ironmarines.hero_darwin",
    "com.ironhidegames.ironmarines.hero_tank",
    "com.ironhidegames.ironmarines.hero_paifeng",
    "com.ironhidegames.ironmarines.hero_trabuco",
    "com.ironhidegames.ironmarines.credits_pack1",
    "com.ironhidegames.ironmarines.credits_pack2",
    "com.ironhidegames.ironmarines.credits_pack3",
    "com.ironhidegames.ironmarines.credits_pack4",
    "com.ironhidegames.ironmarines.credits_pack5",
    "com.ironhidegames.ironmarines.credits_pack6",
    "com.ironhidegames.ironmarines.unlock_campaign"
 ]
```

Special Offers

This is used to configure optional special offers. This is an example of the special offer for all heroes:

```json
{
    "identifier": "offer_special_all_heroes",
    "iapIdentifier": "com.ironhidegames.ironmarines.special_pack1",
    "offerType": 0,
    "offerCost": {
        "currencyType": 0,
        "cost": 0
    } ,
    "rewards": [{
        "identifier": "all_heroes",
        "rewardType": 4,
        "count": 1
    } ],
    "metadata": {
        "value": "2",
        "offerType": "all_heroes",
        "duration": "0.12:59:59",
        "unique": "true",
        "checkPurchasedHeroes":"false"
    }
}
```

Where:
- `identifier : string` – The identifier of this special offer. All special offers should start with `"offer_special_"` prefix, since that is used by the remote configurator (explained before).
- `iapIdentifier : string` – The IAP identifier, used when start a purchase attempt with the store.
- `offerType : int` – The type of offer, could be:
    - 0 - hard currency (real money, this is the default case)
    - 1 - virtual currency (to buy stuff with credits, we never implemented it) [NOT IMPLEMENTED]
    - 2 - free (we used this on launch to give the mercenary hero for free)
- `offerCost : object` – The cost of the offer, in the proper currency type. It was meant to be used for virtual currency, leave default values [NOT IMPLEMENTED].
- `rewards - object` – a JSON with the list of rewards of the offer, should have at least 1 and max 3 offers. The format is explained later.
- `metadata - object` – a JSON with optional behaviour configuration, like when should the offer start showing and the duration, etc.

- `value : int` - The value to show in the card, like how good the offer is, we show it as "x2 value" in the corner of the offer card.
- `startingDate : datetime` – (optional) the date to start showing the offer. Check [C# DateTime reference](#) for more information, and [examples section](#).
- `endingDate : datetime` – (opcional) the ending date until we show the offer. Check [C# DateTime reference](#) for more information, and [examples section](#).
- `duration: timestamp` – the total duration of the offer after it was shown for the first time. Check [C# Timestamp reference](#) for more information, and [examples section](#).
- `unique: bool` – If we don't allow to buy the offer again or not, true by default. We use the unique special offer identifier to check this. So each new offer you create, you have to create a new identifier if you want them to be unique.
- `offerType: int` – the type of offer, mainly used for special occasions, like halloween, etc, so the offer shows special visual stuff (not all of them have visual customization). The possible types are:
  - `special`
  - `starter`
  - `gift`
  - `holyday_halloween`
  - `holyday_blackfriday`
  - `holyday_christmas`
  - `holyday_newyear`
  - `holyday_lunarfestival`
  - `holyday_summersale`
  - `holyday_ironhideday`
- `checkPurchasedHeroes: bool` – Checks if the player already purchased a hero (which is not consumable) in the current offer to show it. Use `true` to avoid showing offers with purchased heroes, `false` if you still want to show the offer (we use this one mainly for the all heroes offer).
- `stageCompleted: string` - Checks if the stage was completed or not to show the offer. The format is "stages_campaign_XX" where XX is the number of the campaign stage, for example, "stages_campaign_03" shows the offer after stage 3 was completed.

Rewards

These are the possible rewards for the special offer, we allow at least one and at most 3. Each reward is configured in the following way:

- `identifier: string` – Specifies the specific reward, for example, if rewardType is a hero, the identifier is the specific hero. Possible identifiers are explained later.
- `rewardType: int` – Specifies the type of reward, here is the list:
  - `0 - hero`

- - 1 - power (item)
  - 2 - credits
  - 3 - techpoints
  - 4 - all heroes
  - 5 - unlock content (only used in E2W version)
- `count: int` – the count of rewarded powers (items), credits or techpoints, only used in the case of consumables.

These are the possible identifiers for each rewardType.

For rewardType hero:
- `hero_mercenary`
- `hero_mecha`
- `hero_dr_graff`
- `hero_darwin`
- `hero_shatra`
- `hero_tank`
- `hero_paifeng`
- `hero_trabuco`

For rewardType power:
- `power_titandoom`
- `power_orbital_strike`
- `power_etherium_surge`
- `power_mortarbros`
- `power_proximity_bollard`
- `power_accumulator`
- `power_replicant_mines`
- `power_frostbite_bomb`

For rewardType credits:
- `offer_credits_pack1`
- `offer_credits_pack2`
- `offer_credits_pack3`
- `offer_credits_pack4`
- `offer_credits_pack5`
- `offer_credits_pack6`

For rewardType techpoints:
- `offer_techpoints_pack1`

For rewardType all heroes:
- `all_heroes`

For rewardType unlock content:
- `content_campaign`

Hero Sales

This configuration is used mainly to show discounts in the hero room if you want to let the user know a hero is on sale. You still need to adjust the price of the hero on your side, but with this you can show in the game a discount badge. Here is an example configuration:

```
"heroSale" : {
    "heroes":[
        {
            "heroKey":"hero_shatra",
            "discount":50
        },
        {
            "heroKey":"hero_tank",
            "discount":25
        }
        ],
    "metadata":{
        "startingDate":"07/01/2017 09:05:33",
        "duration":"1.00:00:00"
        }
}
```

- `heroes` : a list of json objects specifying the hero identifier and the discount percentage, in the example above, Sha'Tra is discounted 50% and the Tank is discounted 25%.
    - `heroKey : string` – the identifier of the hero (explained with the [rewards](#)).
    - `discount : int` – the number to show in the discount badge.
- `metadata:` optional values to define the discount behaviour.
    - `startingDate : datetime` – when the discount badges should start showing (before that day will not be visible). Check [C# DateTime reference](#) for more information.
    - `duration: timestamp` – the duration while the discount badges should be visible after startingDate. Check [C# Timestamp reference](#) for more information.

Overriding default configurations

You can override other configurations like how much credits each credits pack should provide. In order to do that you have to add configurations for default stuff included in the game but with new values. It uses the same format of special offers but with specific identifiers,

Here are two examples of overriding default config.

Overriding how much the ads credits pack provides:

```
{
    "identifier":"offer_credits_pack_ads",
    "iapIdentifier":null,
    "offerType":1,
    "offerCost":{
        "currencyType":3,
        "cost":0
    },
    "rewards":[
        {
        "identifier":"offer_credits_pack_ads",
        "rewardType":2,
        "count":120
        }
    ],
    "metadata":{

    }
}
```

If you want to override how much the sixth credits pack provide:

```
{
    "identifier":"offer_credits_pack6",
    "iapIdentifier":"com.ironhidegames.ironmarines.credits_pack6",
    "offerType":0,
    "offerCost":{
        "currencyType":0,
        "cost":0
    },
    "rewards":[
        {
        "identifier":"offer_credits_pack6",
        "rewardType":2,
```

```
        "count":55212
        }
    ],
    "metadata":{

    }
}
```

Example

Here is the list of some of the key/values that we get from the RemoteConfig. They have the current configuration as example.

key	value

ratingSettings	<pre>{
	    "minStage" : 4,
	    "minTimeAfterLaunchInMinutes" : 1,
	    "minTimeAfterPostponeInMinutes" : 180
	}</pre>

iaps	<pre>[
	    "com.ironhidegames.ironmarines.hero_mercenary",
	    "com.ironhidegames.ironmarines.hero_mecha",
	    "com.ironhidegames.ironmarines.hero_shatra",
	    "com.ironhidegames.ironmarines.hero_dr_graff",
	    "com.ironhidegames.ironmarines.hero_darwin",
	    "com.ironhidegames.ironmarines.hero_tank",
	    "com.ironhidegames.ironmarines.hero_paifeng",
	    "com.ironhidegames.ironmarines.hero_trabuco",
	    "com.ironhidegames.ironmarines.credits_pack1",
	    "com.ironhidegames.ironmarines.credits_pack2",
	    "com.ironhidegames.ironmarines.credits_pack3",
	    "com.ironhidegames.ironmarines.credits_pack4",
	    "com.ironhidegames.ironmarines.credits_pack5",
	    "com.ironhidegames.ironmarines.credits_pack6",
	    "com.ironhidegames.ironmarines.starter_pack1",
	    "com.ironhidegames.ironmarines.holiday_pack1",
	    "com.ironhidegames.ironmarines.special_pack1",
	    "com.ironhidegames.ironmarines.special_pack2",
	    "com.ironhidegames.ironmarines.special_pack3",
	    "com.ironhidegames.ironmarines.special_pack4",
	    "com.ironhidegames.ironmarines.special_pack5",
	    "com.ironhidegames.ironmarines.special_pack6",
	    "com.ironhidegames.ironmarines.special_pack7",
	    "com.ironhidegames.ironmarines.special_pack8"
	]</pre>

credits_pack_most_popular	offer_credits_pack4
credits_pack_best_value	offer_credits_pack6

ads_map_button_enabled	false

offer_credits_pack1	{
	    "identifier": "offer_credits_pack1",
	    "iapIdentifier":
	"com.ironhidegames.ironmarines.credits_pack1",
	    "offerType": 0,
	    "offerCost": {
	        "currencyType": 0,
	        "cost": 0
	    },
	    "rewards": [
	        {
	            "identifier": "offer_credits_pack1",
	            "rewardType": 2,
	            "count": 1200
	        }
	    ],
	    "metadata": {}
	}

offer_credits_pack_ads	{
	    "identifier":"offer_credits_pack_ads",
	    "iapIdentifier":null,
	    "offerType":1,
	    "offerCost":{
	        "currencyType":3,
	        "cost":0
	    },
	    "rewards":[
	        {
	            "identifier":"offer_credits_pack_ads",
	            "rewardType":2,
	            "count":60
	        }
	    ],
	    "metadata":{}
	}

offer_special_pack7y8	{
	    "identifier": "offer_special_pack8",
	    "iapIdentifier":
	"com.ironhidegames.ironmarines.special_pack8",
	    "offerType": 0,
	    "offerCost": {
	        "currencyType": 0,
	        "cost": 0
	    },
	    "rewards": [
	        {
	            "identifier": "hero_tank",
	            "rewardType": 0,
	            "count": 1
	        },
	        {
	            "identifier": "hero_dr_graff",
	            "rewardType": 0,
	            "count": 1
	        },
	        {

```
                    "identifier": "hero_darwin",
                    "rewardType": 0,
                    "count": 1
                }
            ],
            "metadata": {
                "value": "3",
                "offerType": "special",
                "duration": "0.22:59:59",
                "unique": "true",
                "stageCompleted": "stages_campaign_14"
            }
        }
```