

Software Dev – GTA Online Spy Satellite DLC

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This software development project is a sample presentation for interview purposes. The goal is to highlight my PowerPoint development skills as well as a few skills assumed of software engineers.

I assume each company or software engineer has their own way of flowcharting software before it is developed. I have found PowerPoint to be incredibly useful for creating flowcharts.

The presentation is currently in progress.

Accessing this presentation through my LinkedIn page (or any other way) does not give you the permission to distribute it nor claim it as your own work.

I am the sole developer of this DLC concept. Please do not distribute this presentation.

Thank you.

Sincerely,

Edmundo “Ed” Orejel, MSCS



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GTA Online Spy Satellite DLC - Explanation of Shapes, Symbols, Icons and Terminology

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The DLC concept that is featured in this software development document is fictional. Since it is intended for GTA Online, a game that is owned by Rockstar Games, it will feature some aspects or concepts of their game to help me illustrate the DLC concept I am proposing.

Any imagery that is owned by Rockstar Games, is only used by me for educational purposes, to help explain a concept that I am proposing.

No type of illegal or unauthorized modification to GTA Online is being proposed in this document. I am only reusing certain aspects of their game in a hypothetical manner. I am also including other components for addition into GTA Online.

Any other images found in this document are used solely for educational purposes and are property of their respective owners.



I will use this square with round corners to diagram certain aspects of the concept DLC. I will also use other shapes. The color in the shapes have no significant. All colors in all shapes inside of this presentation are randomly chosen by me and there is no significance to their choosing or their placement.



I may also use a rectangle with round corners for the same purpose. The colors are randomly chosen. They do not mean anything.

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3



→ ←

I will use this dark blue rectangle to illustrate some of the concepts in this DLC.



I will use a square version of the same color, to also depict some of the concepts in the DLC.



A yellow double-headed arrow will signify communication in both ways, or a two-way relationship between objects.

I will use different shapes of the double-headed arrow. Some double-headed arrows will be bent, and have sharp corners.

Data will travel between two objects, in both directions when this arrow is used.



GTA Online Spy Satellite DLC - Explanation of Shapes, Symbols, Icons and Terminology

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A yellow one-way single-headed arrow will be used to signify communication in one direction, or a one-way relationship. Different versions of the single-headed arrow will be used. Some will be a straight line. Others will have sharp corners and be bent in various directions.

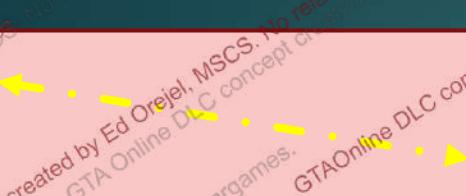
A yellow dashed double-headed arrow will be used to show a proposed relationship between objects where there is a data flow.



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GTA Online Spy Satellite DLC - Explanation of Shapes, Symbols, Icons and Terminology



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A yellow dashed and dotted double-headed arrow will be used to show an actual relationship between components where there is data flow.

1

Data Flow: In and Out

A red circle with a number inside of it, will be used to show a numerical relationship between components. The numbers used will be from 1 to “n” “n” is just some number at the end of the sequence. The “n” is used in math and programming.

Data Flow: In and Out – data in the spy satellite simulation that is moving freely back-and-forth, between in-game systems or hardware components in the game.

This data relationship is assumed to exist for the purposes of the GTA Online game and for the purposes of launching the spy satellite and connecting it to an online status within the game.

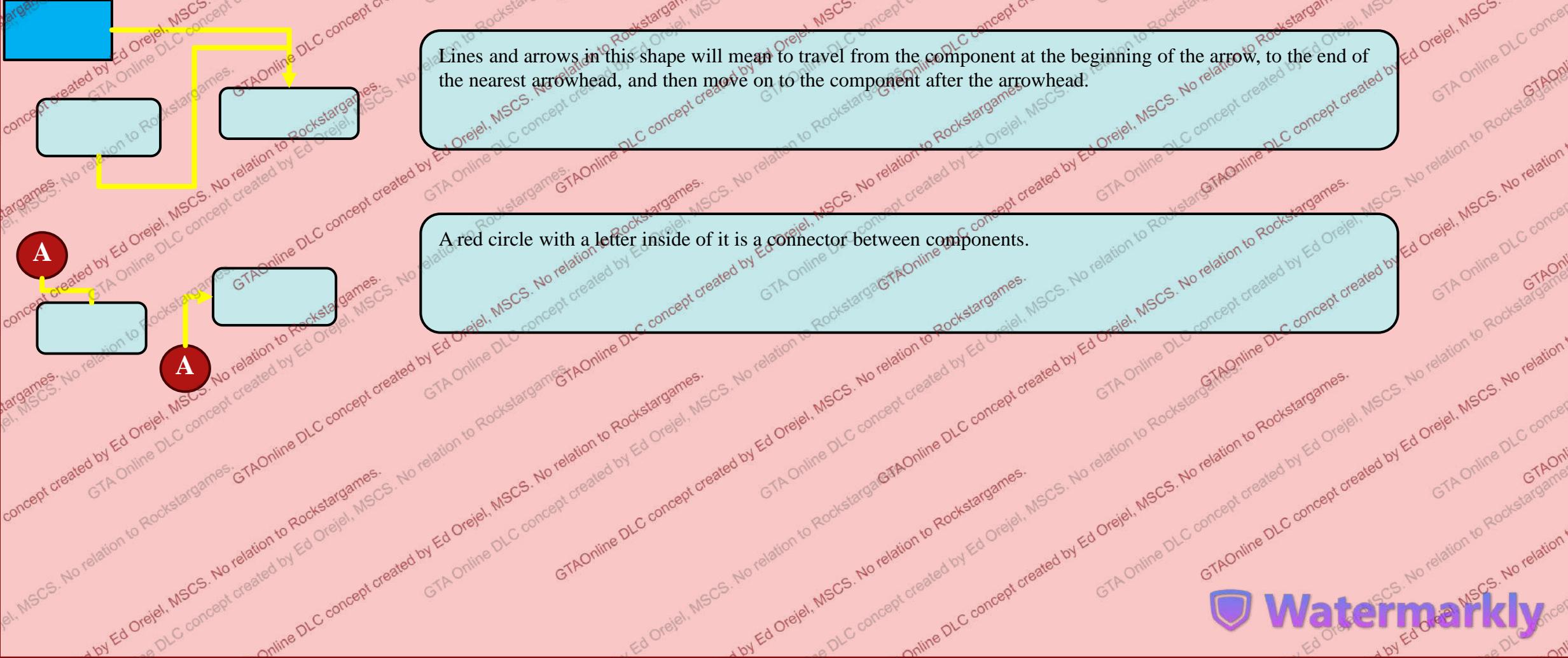


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GTA Online Spy Satellite DLC - Explanation of Shapes, Symbols, Icons and Terminology

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GTA Online Spy Satellite DLC - Explanation of Shapes, Symbols, Icons and Terminology

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The Shadow Hacker Group Icon – Through the spy satellite, the Shadow Hacker Group will provide hacking and attacking services to the player.



The Military Services Icon – Through the spy satellite, the Military will provide military services to the player.

1



1. The Satellite Services Icon – The spy satellite will provide military and hacker services to the player. Other services could be provided.
2. A targeting system can be created using the player's in-game cell phone to deliver services to the player from the spy satellite in orbit.
3. One of those services is drones that are controlled by the spy satellite.
 1. One such drone is a vehicle hacking drone.

2



3.1



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This is the display of all players in a current GTA Online free roam lobby, at any moment, whether the lobby is public or private.

This same list of players also appears in the player's in-game cell phone.



Cell Phone Contact's List – The spy satellite will allow players to target other players from the in-game cell phone's Contact's List.

Both the in-game cell phone, and the current player display in the GTA Online free roam lobbies, share the same information relating to the number of players currently in the lobby.



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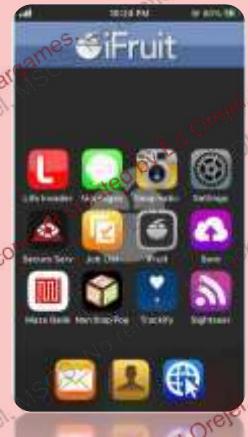
GTA Online Spy Satellite DLC - Explanation of Shapes, Symbols, Icons and Terminology

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The GTA Player Cell Phone – It is the current default in-game cell phone that players use in GTA Online for various in-game services. In GTA Online we imply that mobile data is traveling freely between networks, and that's how we have phone service.

This cell phone will be connected to the spy satellite. The spy satellite will provide another connection to the cell phone. Data will travel freely between the satellite and the cell phone in GTA Online.



Different Version of GTA Cell Phone – This is a different version of the GTA Online cell phone. The difference I am interested in is that it has the Trackify App installed.



GTA Online Spy Satellite DLC - Description of Player Tracking and Mobile Device GPS Coordinates

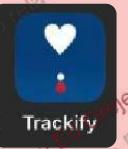


The Targeting System – The components that I am focusing on can be connected to form a radar detection and targeting system. The satellite dishes at the Satellite Relay Station could be connected to the spy satellite.

Satellite Relay Station located in Grand Senora Desert, Blaine County (Optional)



The Contact's List Icon - the player will select other players for targeting using the spy satellite and the Contact's List in their cell phones.



The Trackify Icon –The Trackify App will provide the following functions:

- (1) Radar-tracking – the radar tracking will be to detect in-coming smart ammunition.
- (2) Player targeting via access to the Contact's List of the in-game player cell phone.



Using the two functions listed above can result in smart weapons, and advanced technological concepts to be used in GTA Online gameplay, once connected to the spy satellite.

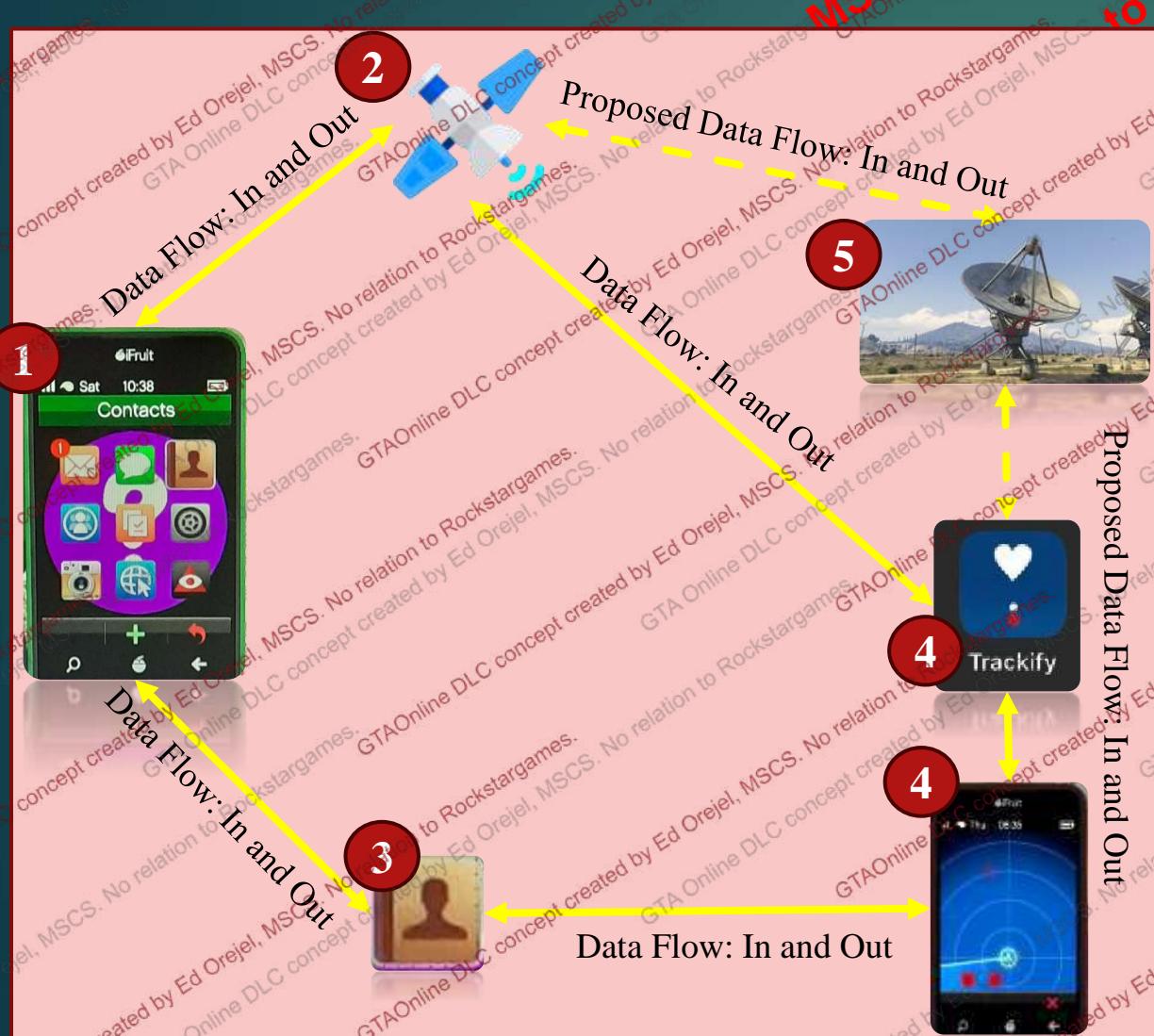


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GTA Online Spy Satellite DLC

Radar and Targeting System Data Flow – Proposed Data Flow Between Components

11



This flowchart shows the relationship that I am proposing with current in-game components. The purpose of organizing the components this way, is to create a new piece of technology in the game. The technology is in the form of a radar and targeting mechanism that will be created by the addition of a spy satellite.

The radar detection and targeting mechanism is created using the following in-game components:

1. The player's in-game cell phone.
2. The newly added spy satellite.
3. The cell phone's Contact's List.
4. A radar system like GTA Online's Trackify App.
5. Satellite Relay Station located in Grand Senora Desert, Blaine County (Optional)

The main function of the spy satellite is to provide GPS latitude and longitude coordinate data of the player's current location, anywhere in the free roam lobby, if the player is not indoors. GPS data of the player will also be tracked while underwater or out in the ocean.

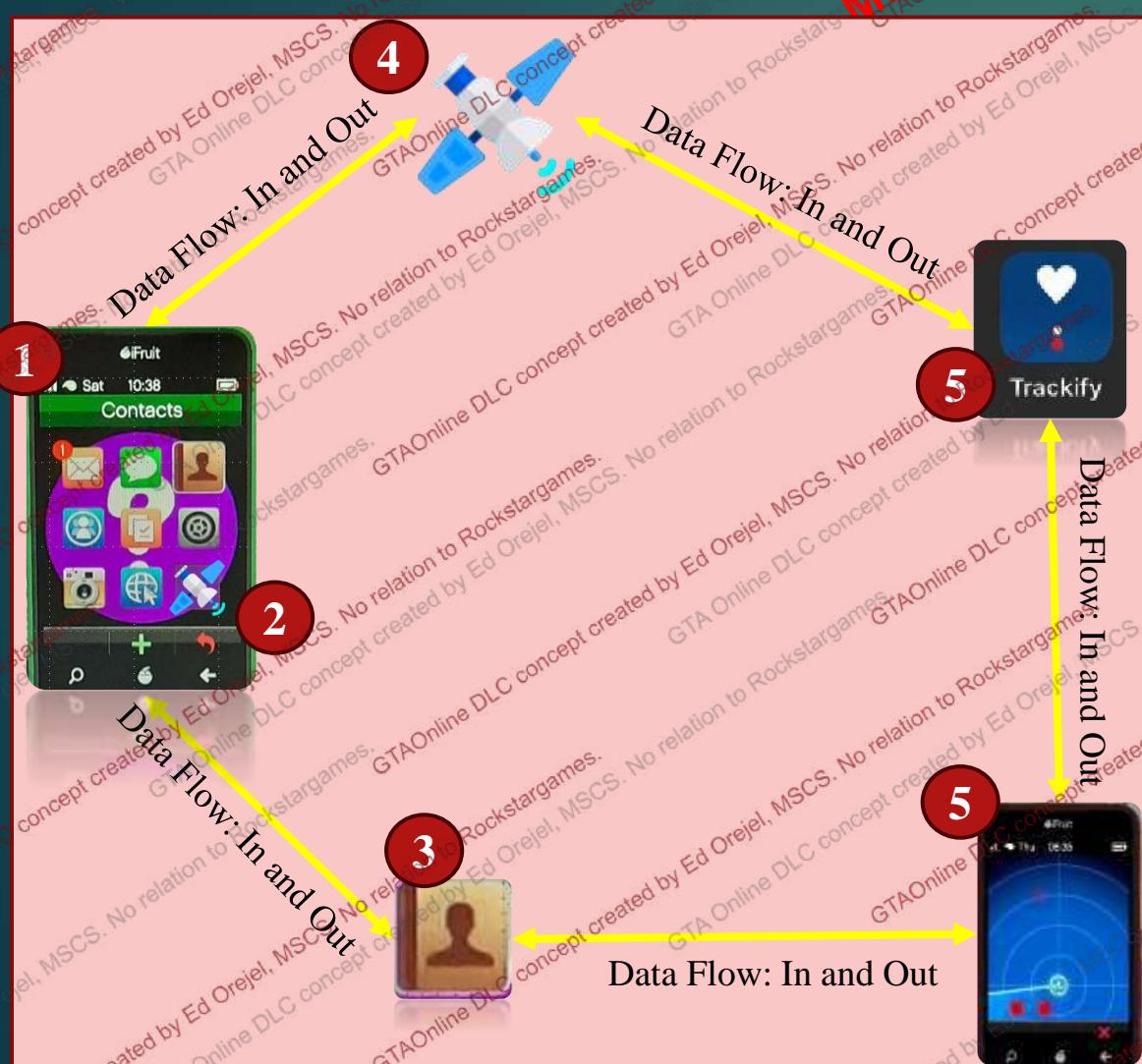
The spy satellite and radar tracking system will allow other new technology to be used in the game.

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GTA Online Spy Satellite DLC

Radar and Targeting System Data Flow – Actual Data Flow Between Components

12



This flowchart presents the actual data flow between components, once the spy satellite is launched into orbit.

The radar detection and targeting mechanism is created using the following in-game components:

1. The player's in-game cell phone.
2. The spy satellite linked to the in-game cell phone.
3. The cell phone's Contact's List.
4. The newly added spy satellite.
5. A radar system like GTA Online's Trackify App.

Players in GTA Online use their cell phone, but it is assumed that the service to the cell phone will always have a connection, if the player maintains a cash balance in the game.

If players use a cell phone in the game, then the cell phone can receive a satellite signal or some other type of signal to maintain connectivity.

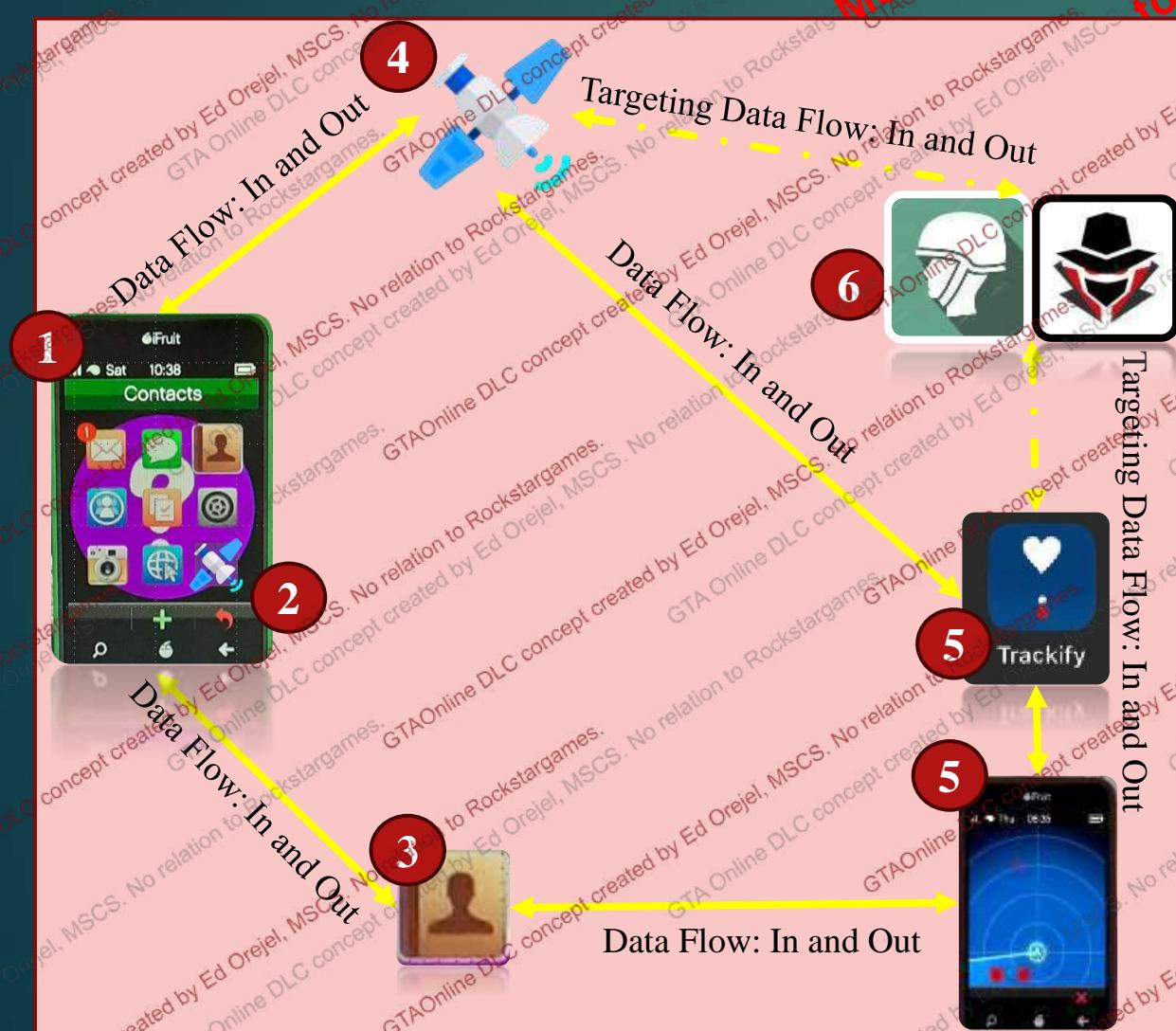
A spy satellite connection to the cell phone could be created, and new in-game features could be enabled from the spy satellite.

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GTA Online Spy Satellite DLC

Radar and Targeting System Data Flow – Targeting Data Flow Between Components – Spy Satellite Services Included

13



Once the components are assembled, the smart weapons would receive data from the spy satellite in the form of GPS latitude and longitude coordinates of the player's cell phone.

1. The player's in-game cell phone.
2. The spy satellite linked to the in-game cell phone.
3. The mobile phone's Contact's List.
4. The newly added spy satellite.
5. A radar system like GTA Online Trackify App.
6. Military services and Hacker services will receive cell phone data.

The smart ammunition fired from the smart weapons would be able to attack enemies that are hiding in hard-to-reach areas.

The smart weapons would be able to fire smart ammunition that would be guided by the spy satellite, to hit an enemy anywhere in the map, even if the enemy is in any type of vehicle or hiding in between houses or apartment buildings.

The spy satellite in conjunction with the smart ammunition, would have artificial intelligence (AI) that would adjust its targeting software in real time, thereby, calculating the best vector of attack.

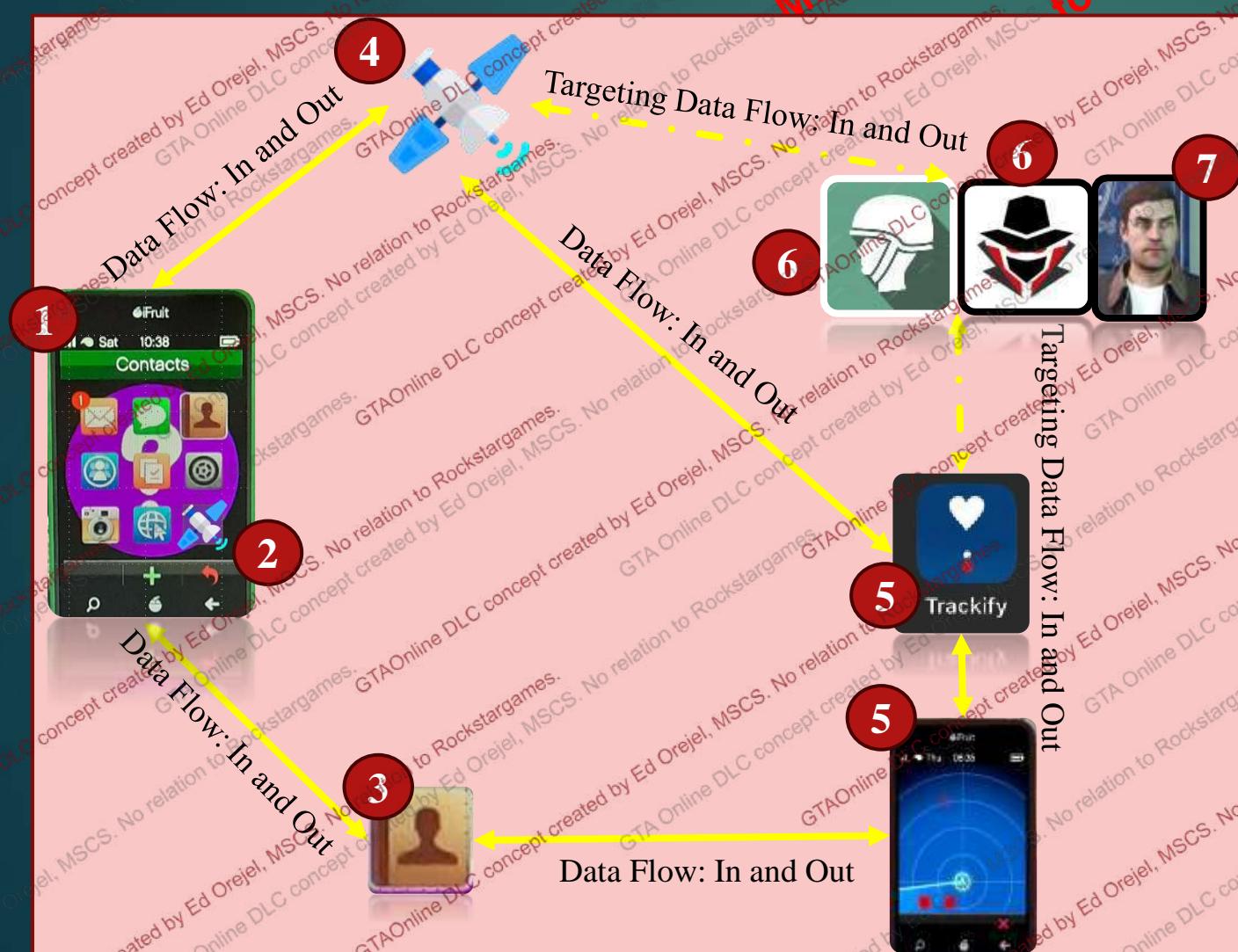
Enemies are other players in GTA Online or players not in the organization of the attacking player.

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GTA Online Spy Satellite DLC

Radar and Targeting System Data Flow – Targeting Data Flow Between Components – Spy Satellite Services – Adding Other Services

14



1. The player's in-game cell phone.
2. The spy satellite linked to the in-game cell phone.
3. The cell phone's Contact's List.
4. The newly added spy satellite.
5. A radar system like GTA Online Trackify App.
6. Military services and Hacker services will receive cell phone data.
7. Additional component(s) added: Agent 14.

The design of the system allows for other components to be added and connected to the spy satellite.

For example, Agent 14 could be given access to the spy satellite. Once Agent 14 is given access, he can call the players on their mobile phones to see if they want to access other in-game missions offered through the spy satellite.

The spy satellite can also be used to connect and add other types of DLCs.

An “Aquatic DLC” focusing on the billionaire lifestyle of expensive yachts, high-end illegal contraband, and power business deals gone bad could be one of many choices.

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GTA Online Spy Satellite DLC – Military Services – Cell Phone Functionality

Military Platoon Attack Service

- Cell phone functionality required.
- Functionality for the Military Platoon Attack Service app, while ON, to access the Contact's List to select a player for targeting. (Some assumptions left unstated for now.)

For the Contact's List

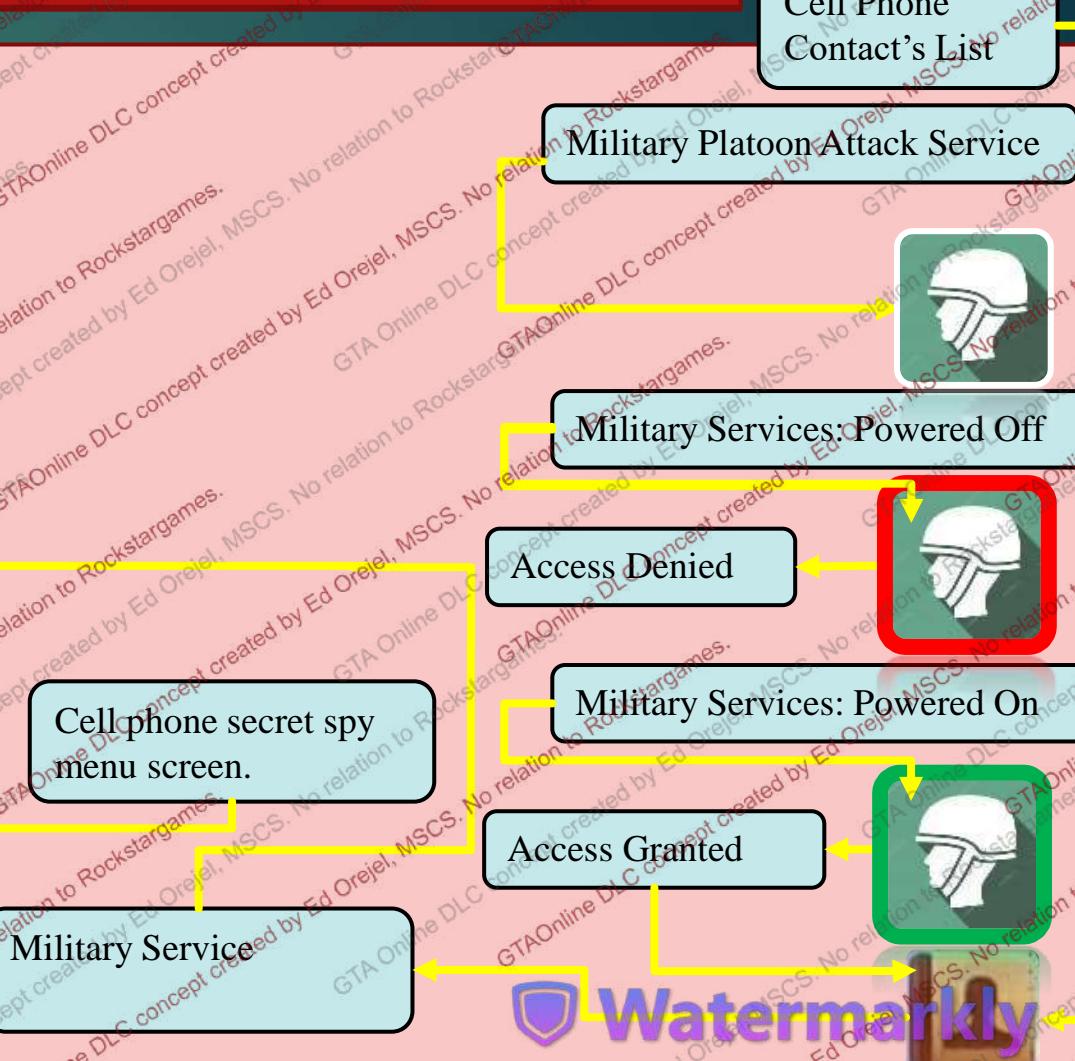
- Ability to sort the Contact's List to only have free roam lobby players available for targeting upon engaging the satellite icon.



1
Main cell phone screen. Players press the satellite icon to access spy satellite services. They will be directed to a secret menu.



2





GTA Online Spy Satellite DLC – Shadow Hacker Group Service – Cell Phone Functionality

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Shadow Hacker Group

- Cell phone functionality required.
- Functionality for the ShadowHacker Group app, while ON, to access the Contact's List to select a player for targeting. (Some assumptions left unstated for now.)

For the Contact's List

- Ability to sort the Contact's List to only have free roam lobby players available for targeting upon engaging the satellite icon.



Main cell phone screen. Players press the satellite icon to access spy satellite services. They will be directed to a secret menu.



Shadow Hacker Group Services

Shadow Hacker Group

Cell Phone Contact's List

Hacker Services: Powered Off

Access Denied



Hacker Services: Powered On

Access Granted



Shadow Hacker Group





GTA Online Spy Satellite DLC – Shadow Hacker Group – Vehicle Hacking Drone

17



Vehicle Hacking Drone

- Ability for the drone app, while ON, to access the Contact's List to select a player for targeting. (Some assumptions left unstated for now.)

For the Contact's List

- Ability to sort the Contact's List to only have free roam lobby players available for targeting. (Some assumptions left unstated for now)



2
Main cell phone screen. Players press the satellite icon to access spy satellite services. They will be directed to a secret spy menu.



Cell phone secret spy menu screen.

Cell Phone Contact's List

Cell Phone Vehicle Hacking Drone Icon



Drone: Powered Off

Access Denied



Drone: Powered On

Access Granted



Remote Vehicle Hacking & Control

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GTA Online Spy Satellite DLC – Shadow Hacker Group – Attack Drone Swarm

18



Attack Drone Swarm

- Ability for the drone app, while ON, to access the Contact's List to select a player for targeting. (Some assumptions left unstated for now.)

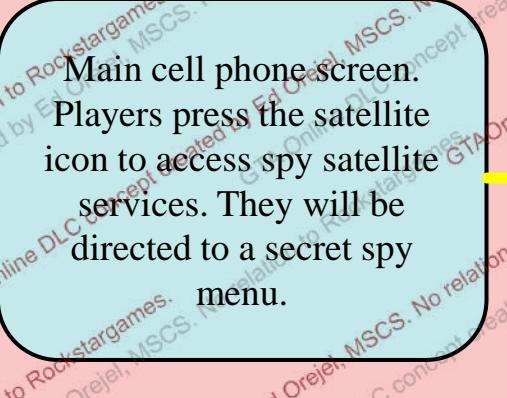
For the Contact's List

- Ability to sort the Contact's List to only have free roam lobby players available for targeting.

1



2



TO

FROM



Cell Phone
Contact's List

Attack Drone Swarm



Drone Swarm: Powered Off



Access Denied



Drone Swarm: Powered On

Access Granted



Attack Drone Swarm

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GTA Online Spy Satellite DLC – Shadow Hacker Group – Robot Drone Attack Dog

19



Robot Drone Attack Dog

- Ability for the drone app, while ON, to access the Contact's List to select a player for targeting. (Some assumptions left unstated for now.)

For the Contact's List

- Ability to sort the Contact's List to only have free roam lobby players available for targeting.



1
Main cell phone screen.
Players press the satellite icon to access spy satellite services. They will be directed to a secret spy menu.



2
Cell phone secret spy menu screen.

Robot Drone Attack Dog

Attack Dog: Powered Off

Access Denied

Attack Dog: Powered On

Access Granted

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GTA Online Spy Satellite DLC – Shadow Hacker Group – Cell Phone Orbital Strike

20



Cell Phone Orbital Strike

- Ability for the drone app, while ON, to access the Contact's List to select a player for targeting. (Some assumptions left unstated for now.)

For the Contact's List

- Ability to sort the Contact's List to only have free roam lobby players available for targeting.



2
Main cell phone screen.
Players press the satellite icon to access spy satellite services. They will be directed to a secret spy menu.



Cell phone secret spy menu screen.

Cell Phone Contact's List

Cell Phone Orbital Strike



Orbital Strike: Powered Off

Access Denied



Orbital Strike : Powered On

Access Granted



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GTA Online Spy Satellite DLC – Shadow Hacker Group – Cell Phone Hacking

21



Cell Phone Hacking

- Ability for the drone app, while ON, to access the Contact's List to select a player for targeting. (Some assumptions left unstated for now.)

For the Contact's List

- Ability to sort the Contact's List to only have free roam lobby players available for targeting.



2
Main cell phone screen.
Players press the satellite icon to access spy satellite services. They will be directed to a secret spy menu.



Cell phone secret spy menu screen.

Cell Phone Contact's List

Cell Phone Hacking



Phone Hack: Powered Off

Access Denied



Phone Hack : Powered On

Access Granted



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GTA Online Spy Satellite DLC – Shadow Hacker Group – Loyal Wingman Drone Service – Ruiner 2000 Jet Car

22



Loyal Wingman Service

- Ability for the drone app, while ON, to access the Contact's List to select a player for targeting. (Some assumptions left unstated for now.)

For the Contact's List

- Ability to sort the Contact's List to only have free roam lobby players available for targeting.



2
Main cell phone screen. Players press the satellite icon to access spy satellite services. They will be directed to a secret spy menu.



Cell phone secret spy menu screen.

Cell Phone Contact's List

Loyal Wingman Drone Service



Drone Service: Powered Off

Access Denied



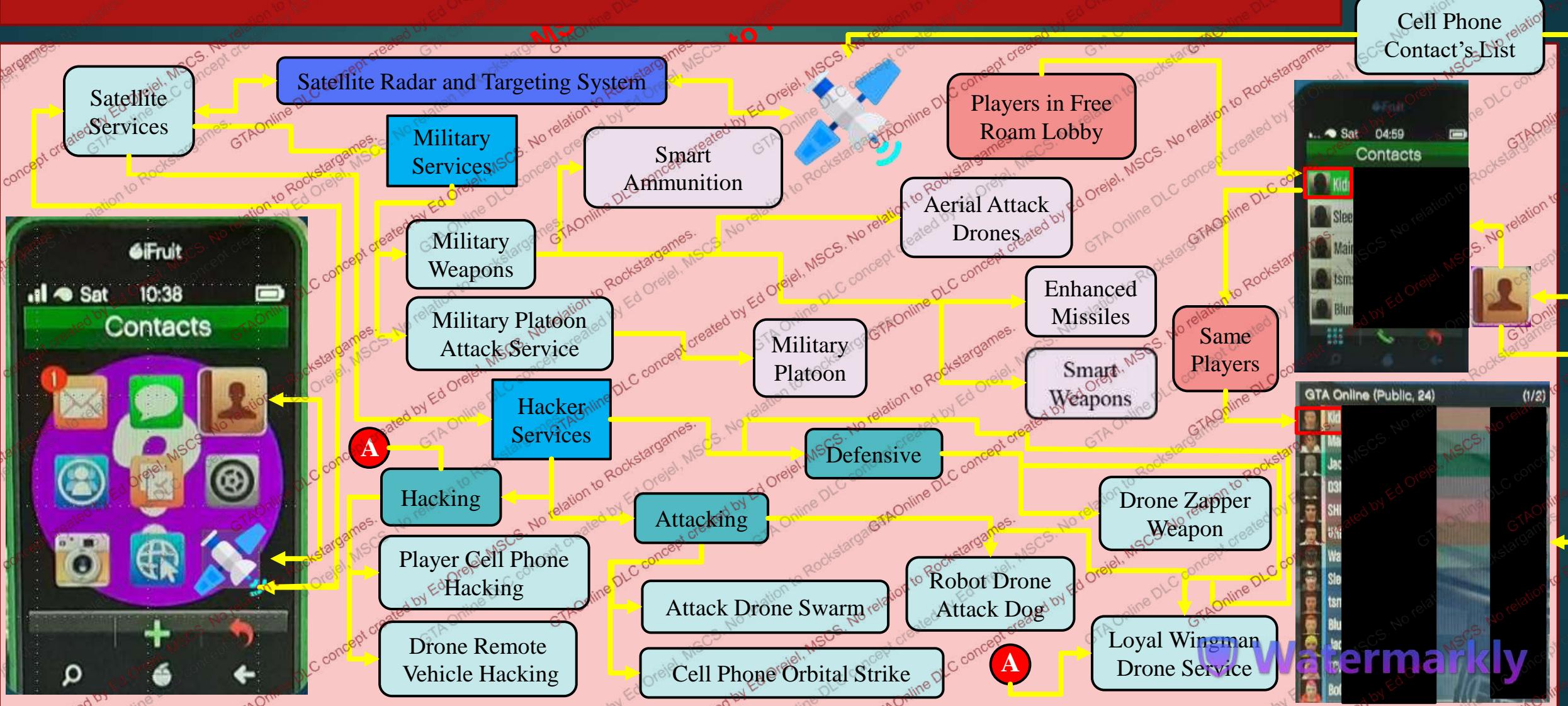
Drone Service : Powered On

Access Granted



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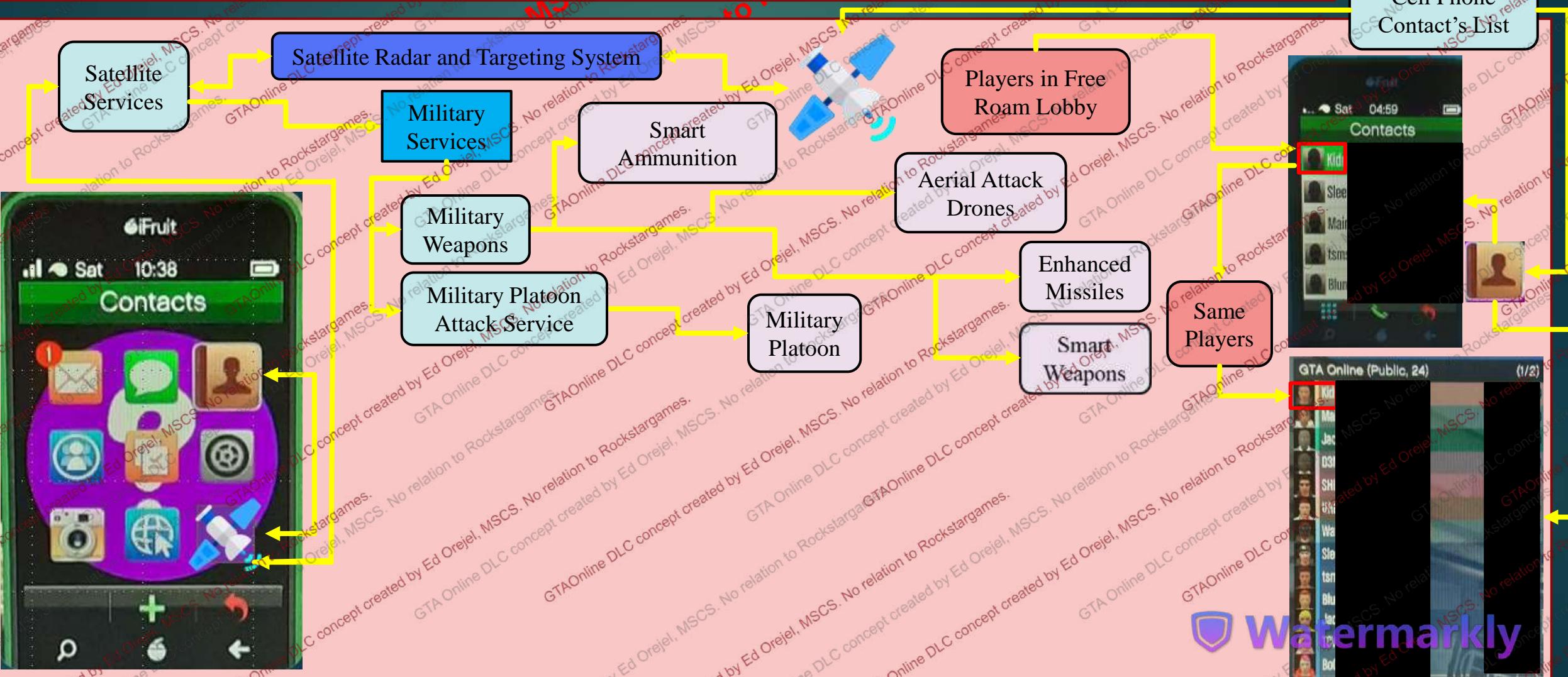
GTA Online Spy Satellite DLC - Overview of Spy Satellite – Top-Level Component View – All Services



GTA Online Spy Satellite DLC - Overview of Spy Satellite – Top-Level Component View – Military Services



Cell Phone
Contact's List



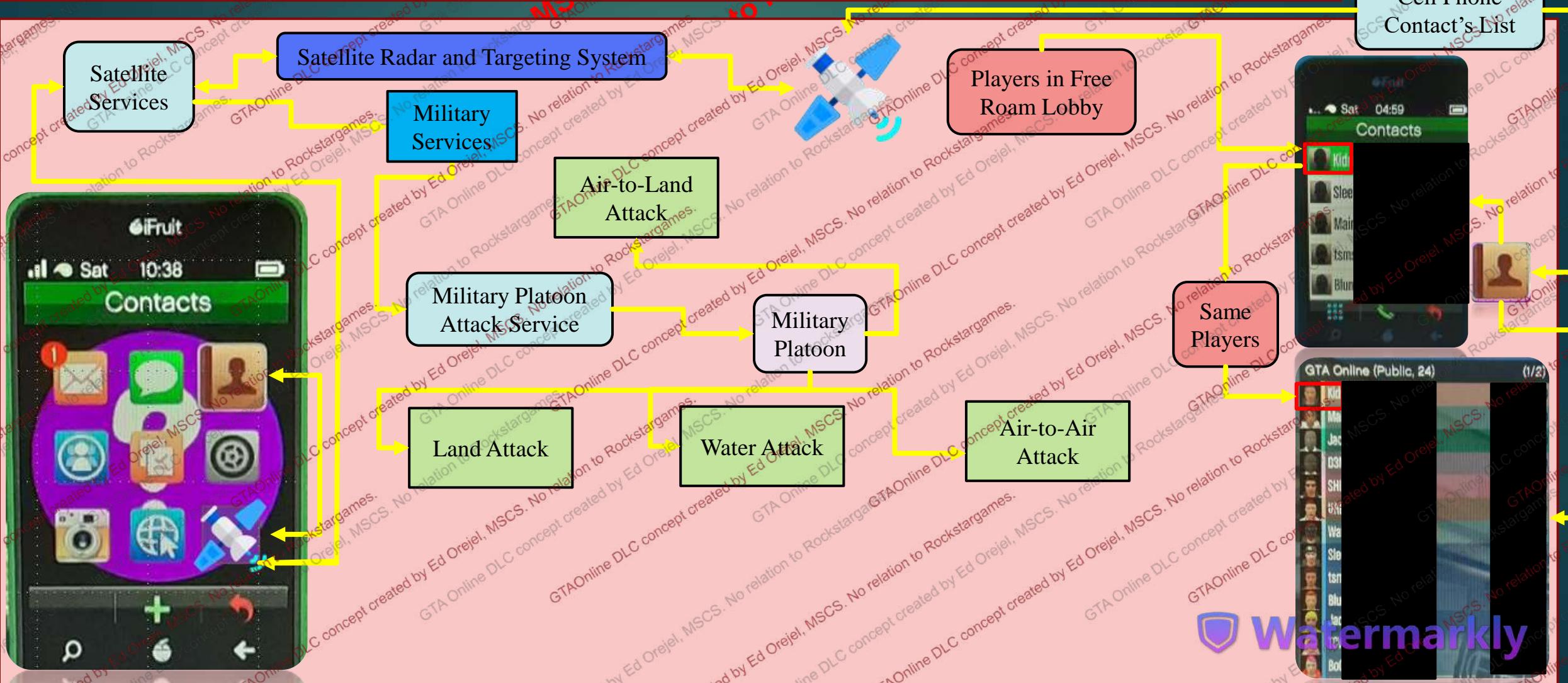
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GTA Online Spy Satellite DLC - Overview of Spy Satellite – Sub-Component View – Military Services – Military Platoon Attack Service

25



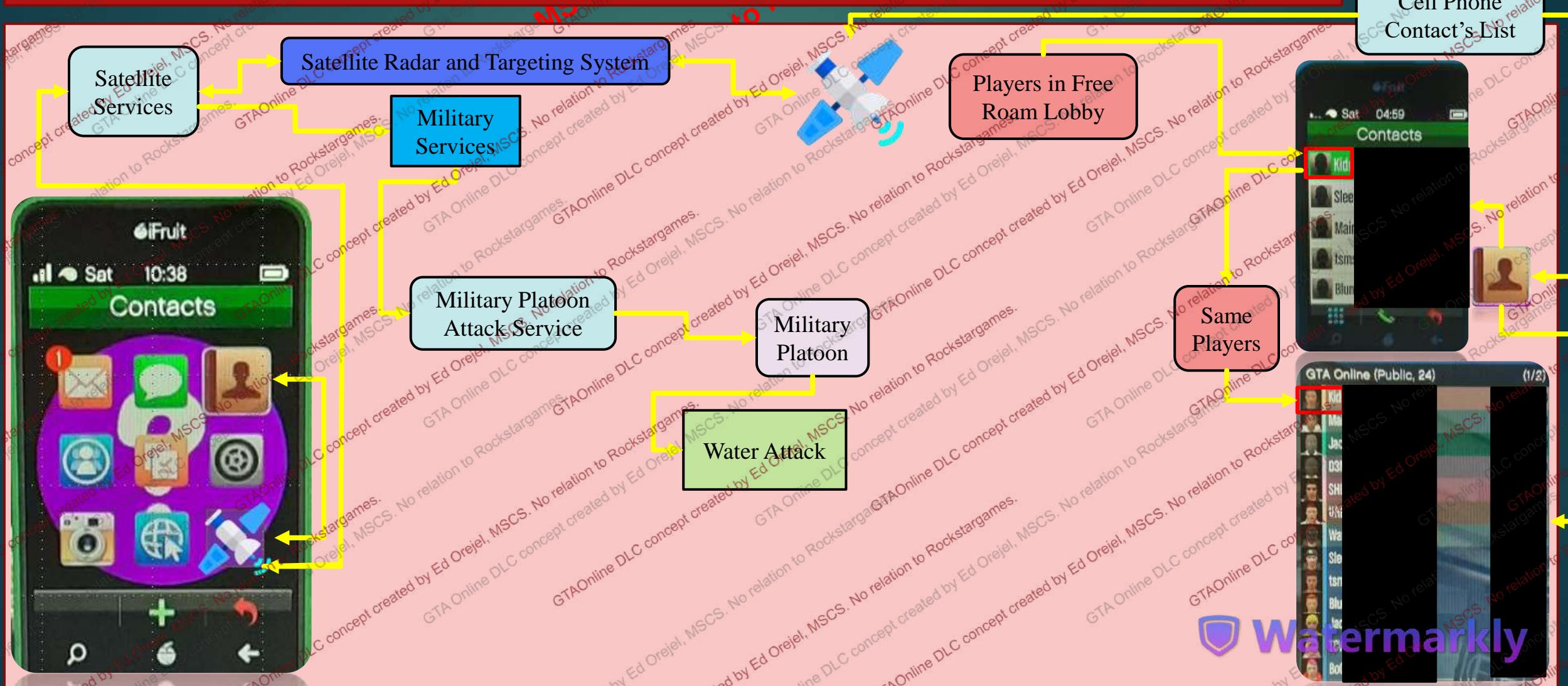
Cell Phone
Contact's List



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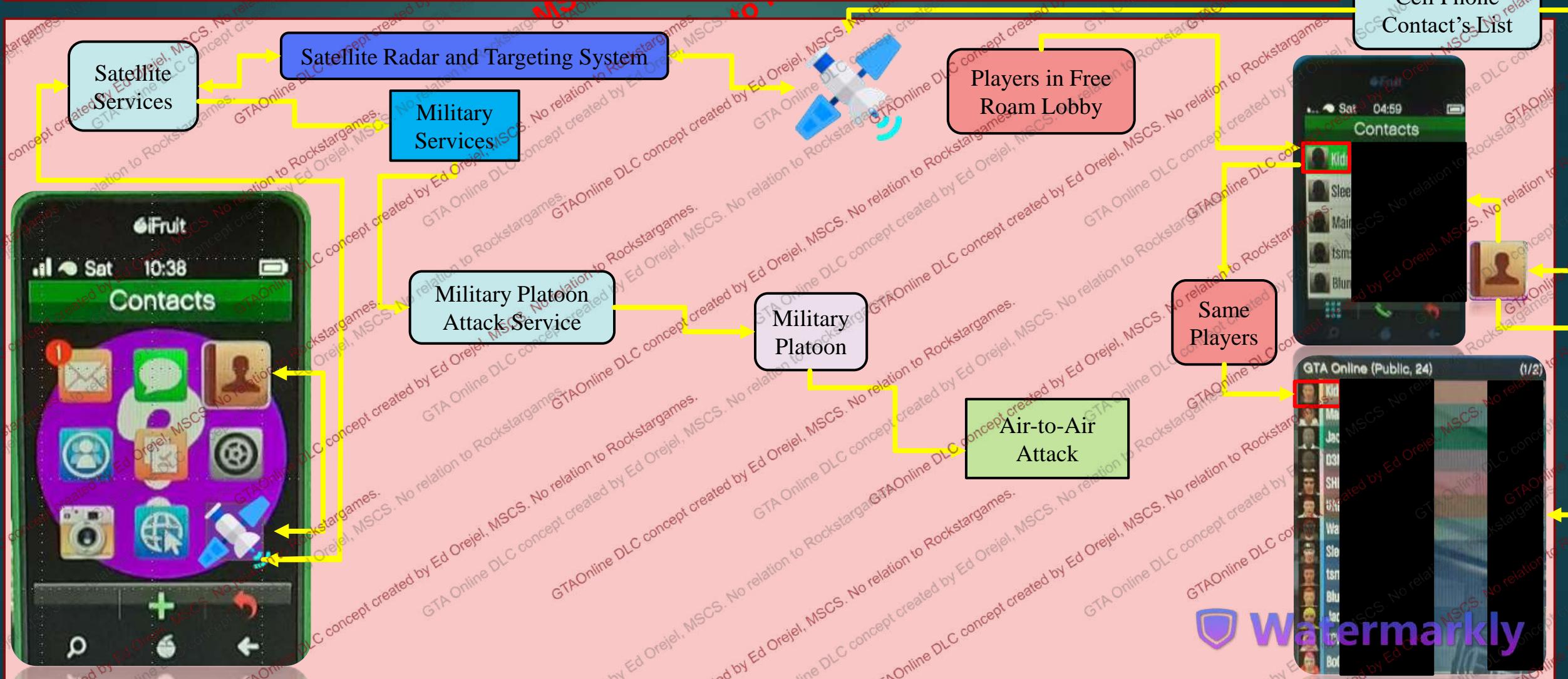
GTA Online Spy Satellite DLC - Overview of Spy Satellite – Sub-Component View – Military Services – Military Platoon Attack Service – Water Attack



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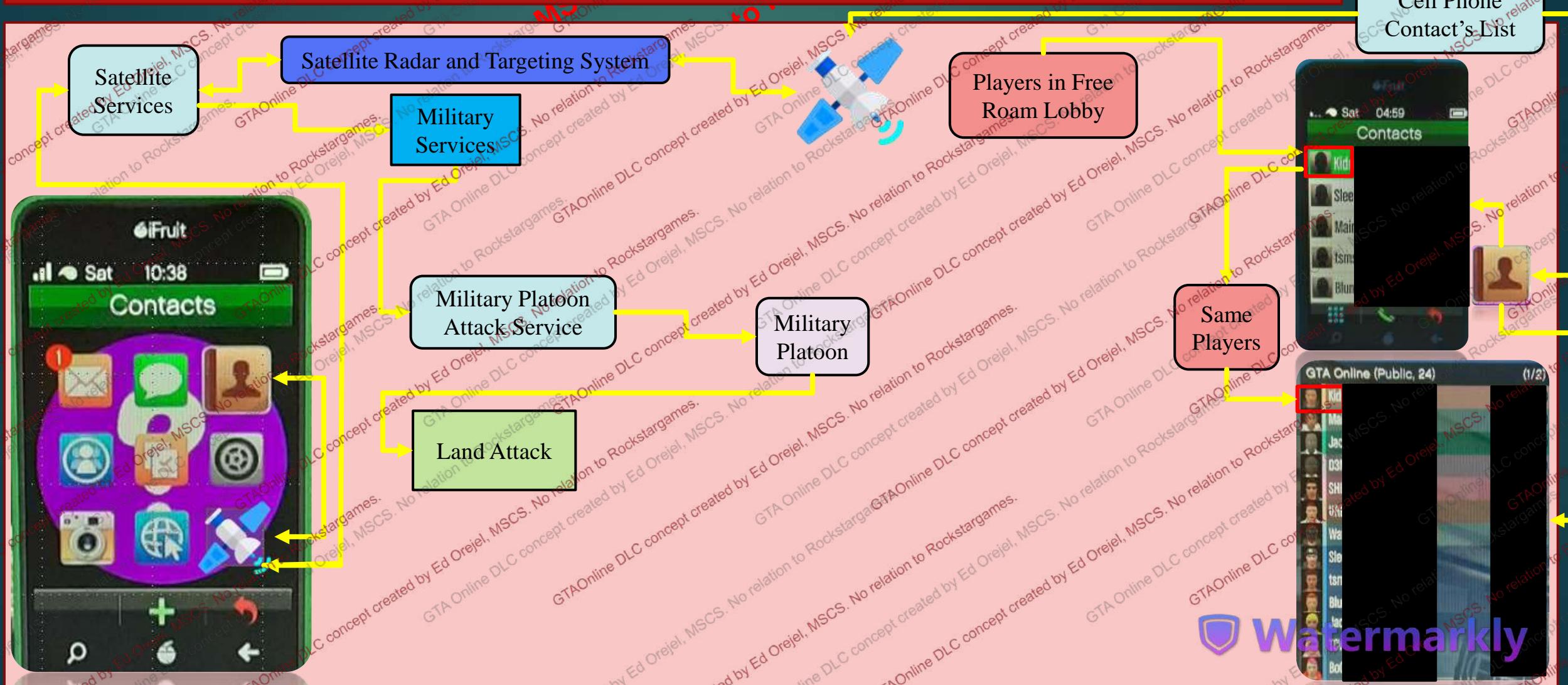
GTA Online Spy Satellite DLC - Overview of Spy Satellite – Sub-Component View – Military Services – Military Platoon Attack Service – Air-to-Air Attack



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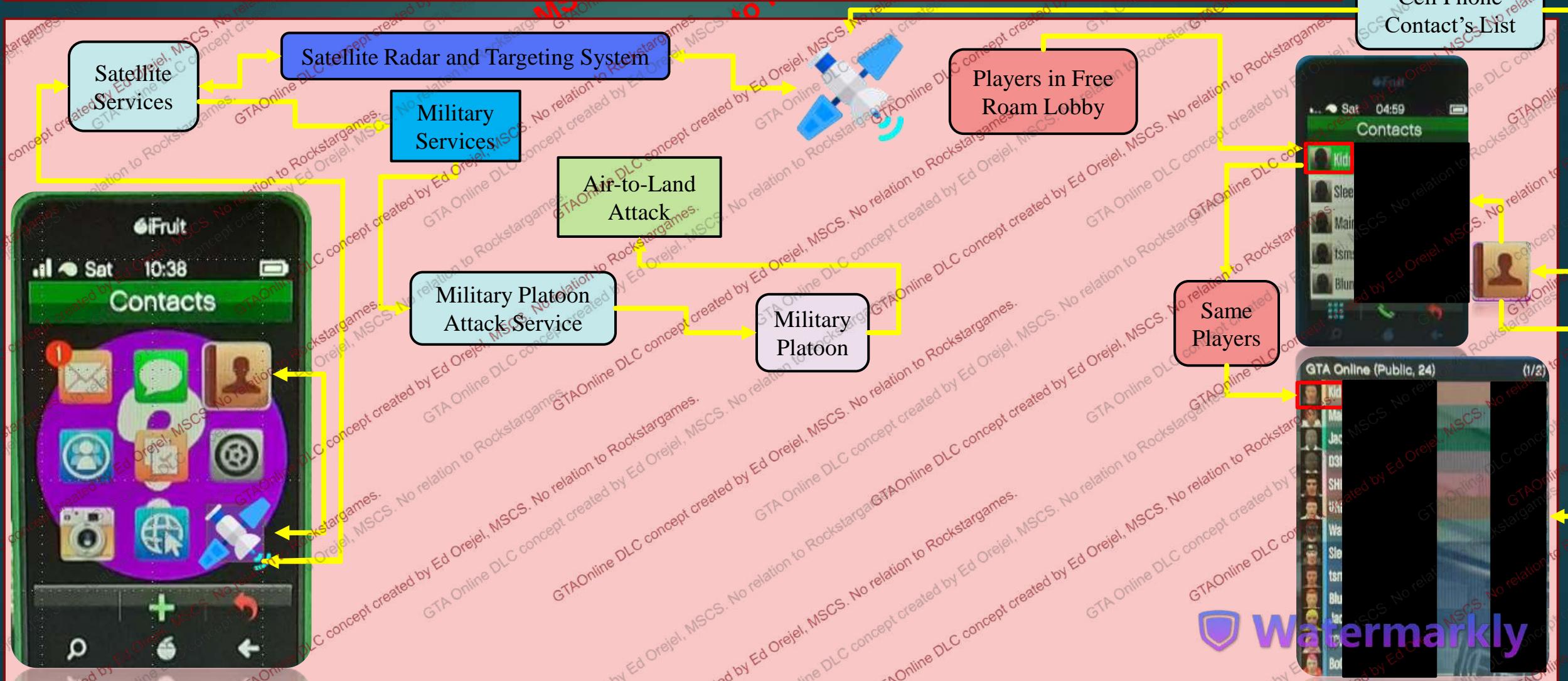


GTA Online Spy Satellite DLC - Overview of Spy Satellite – Sub-Component View – Military Services – Military Platoon Attack Service – Land Attack





GTA Online Spy Satellite DLC - Overview of Spy Satellite – Sub-Component View – Military Services – Military Platoon Attack Service – Air-to-Land Attack



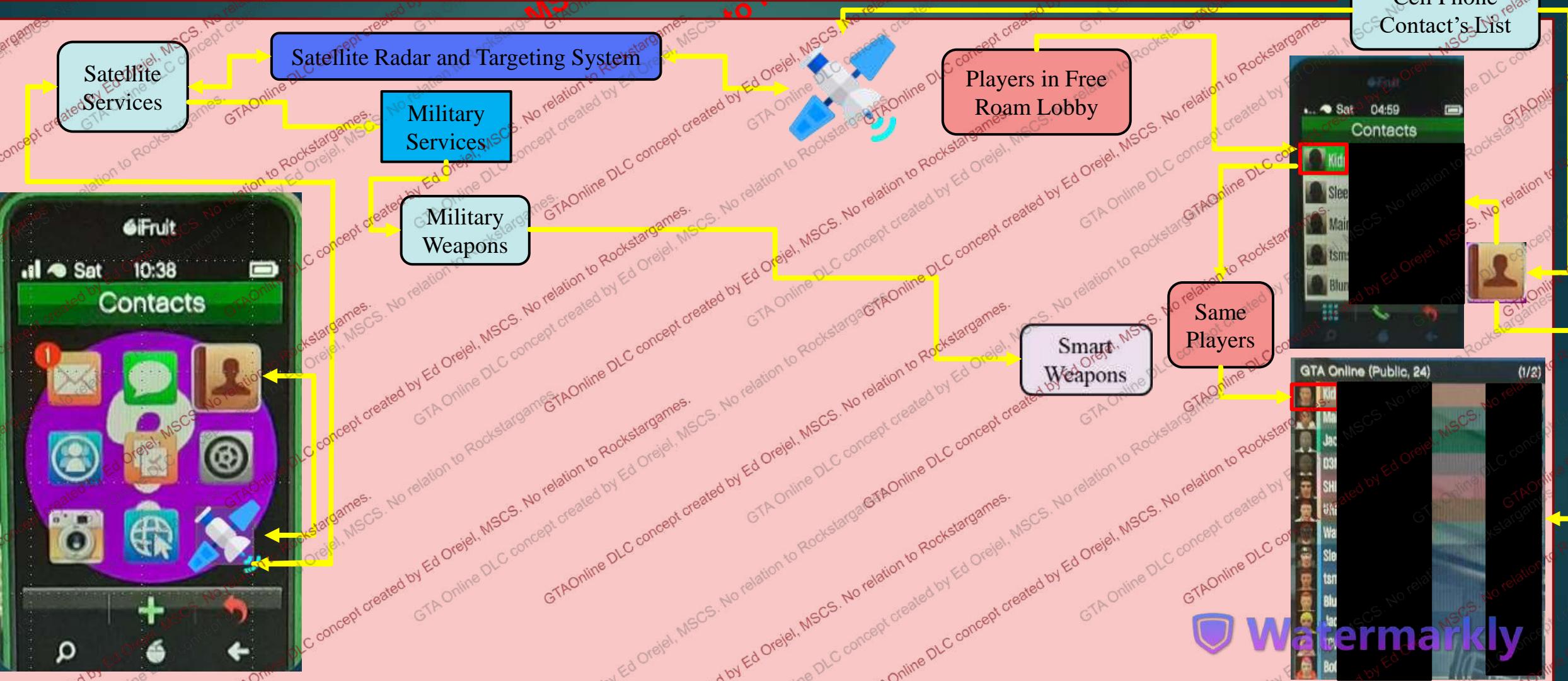
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GTA Online Spy Satellite DLC -

Overview of Spy Satellite – Top-Level Component View – Military Services – Smart Weapons



Cell Phone
Contact's List

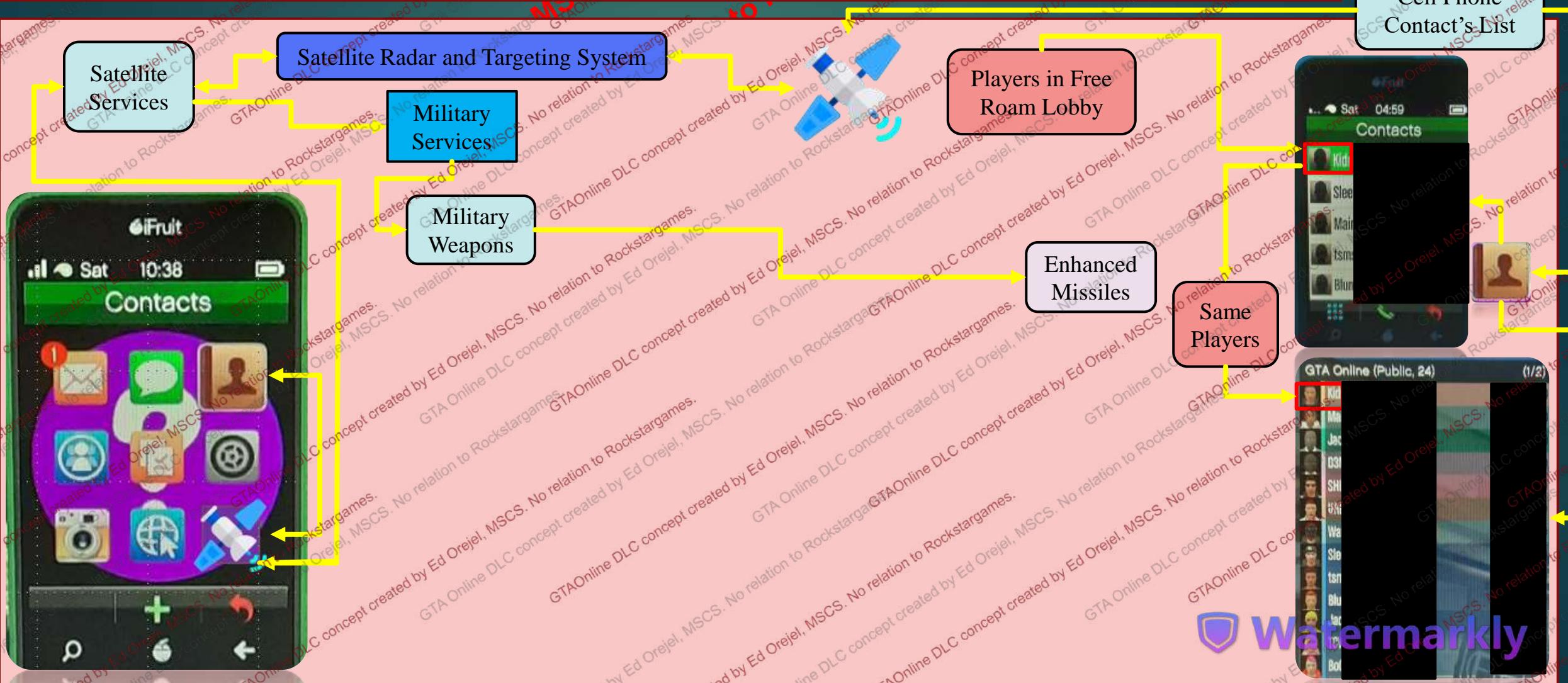


GTA Online Spy Satellite DLC - Overview of Spy Satellite – Sub-Component View – Military Services – Enhanced Missiles

31



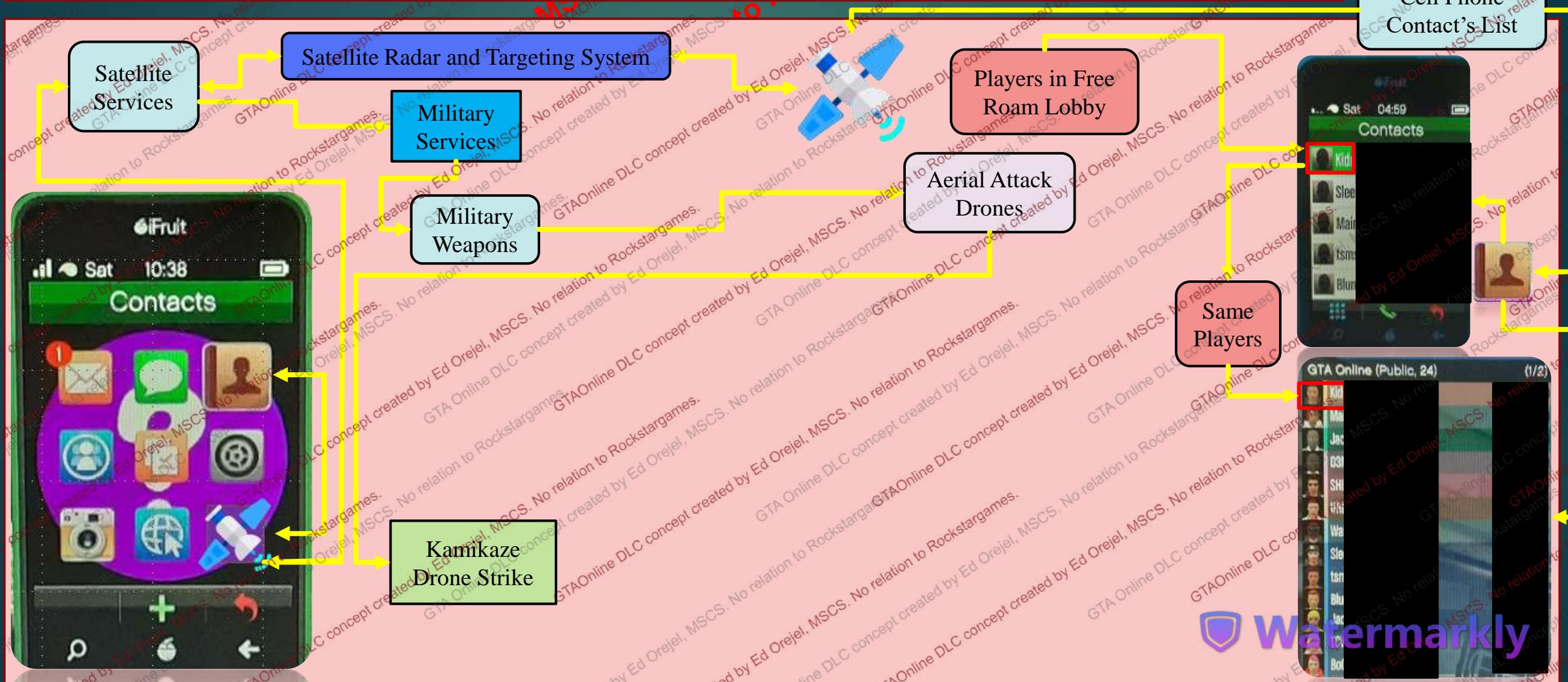
Cell Phone
Contact's List



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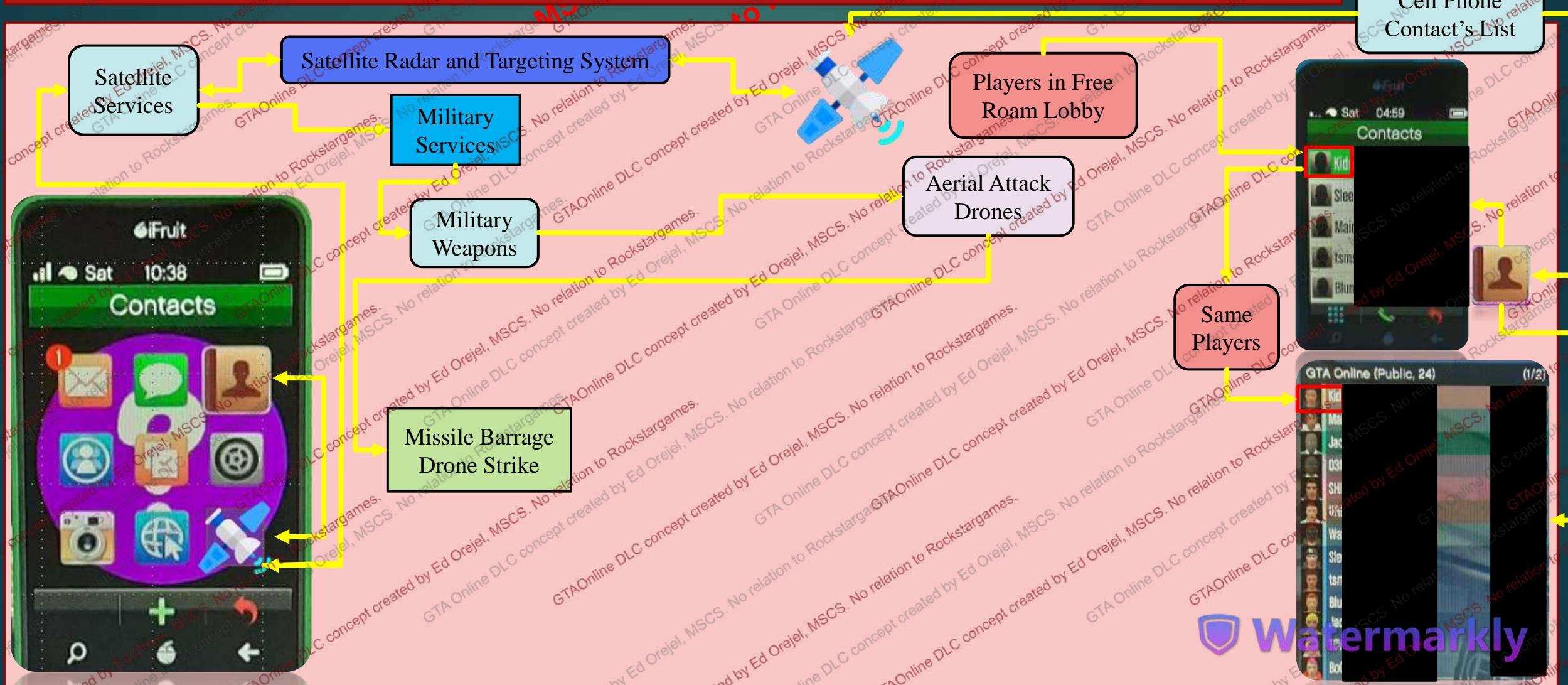
GTA Online Spy Satellite DLC - Overview of Spy Satellite – Sub-Component View – Military Services – Aerial Attack Drones – Reaper or Predator Drones – Kamikaze Drone Strike



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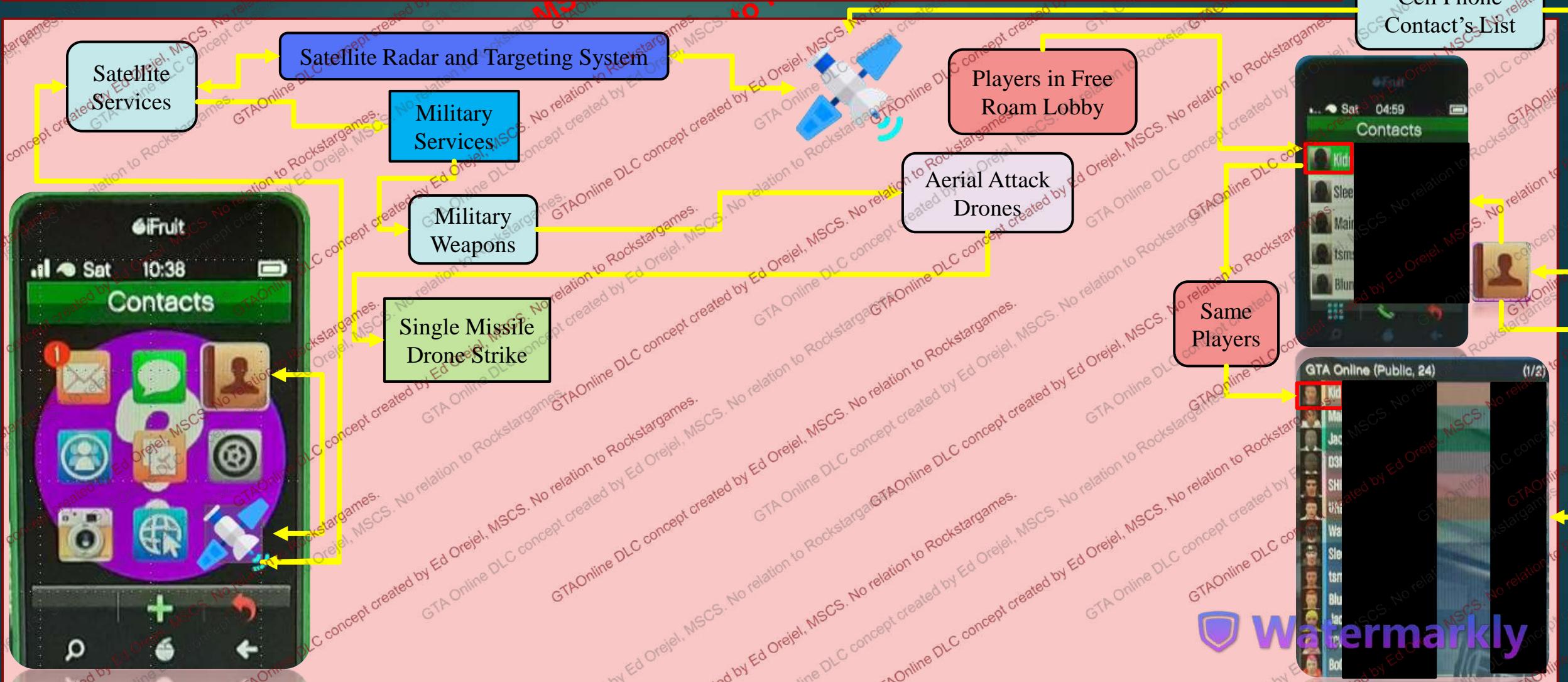
GTA Online Spy Satellite DLC - Overview of Spy Satellite – Sub-Component View – Military Services – Aerial Attack Drones – Reaper or Predator Drones – Missile Barrage Drone Strike



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GTA Online Spy Satellite DLC - Overview of Spy Satellite – Sub-Component View – Military Services – Aerial Attack Drones – Reaper or Predator Drones – Single Missile Drone Strike



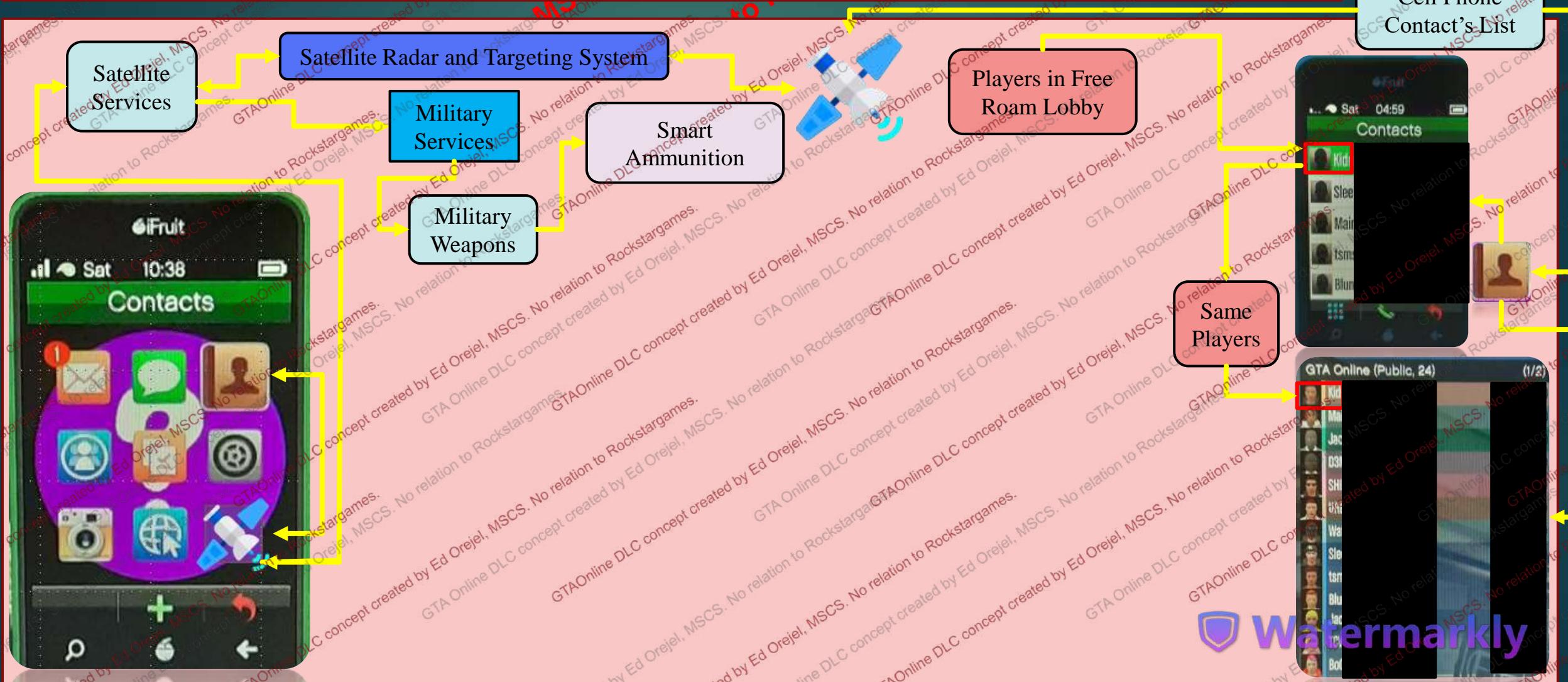
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GTA Online Spy Satellite DLC - Overview of Spy Satellite – Sub-Component View – Military Services – Smart Ammunition

35



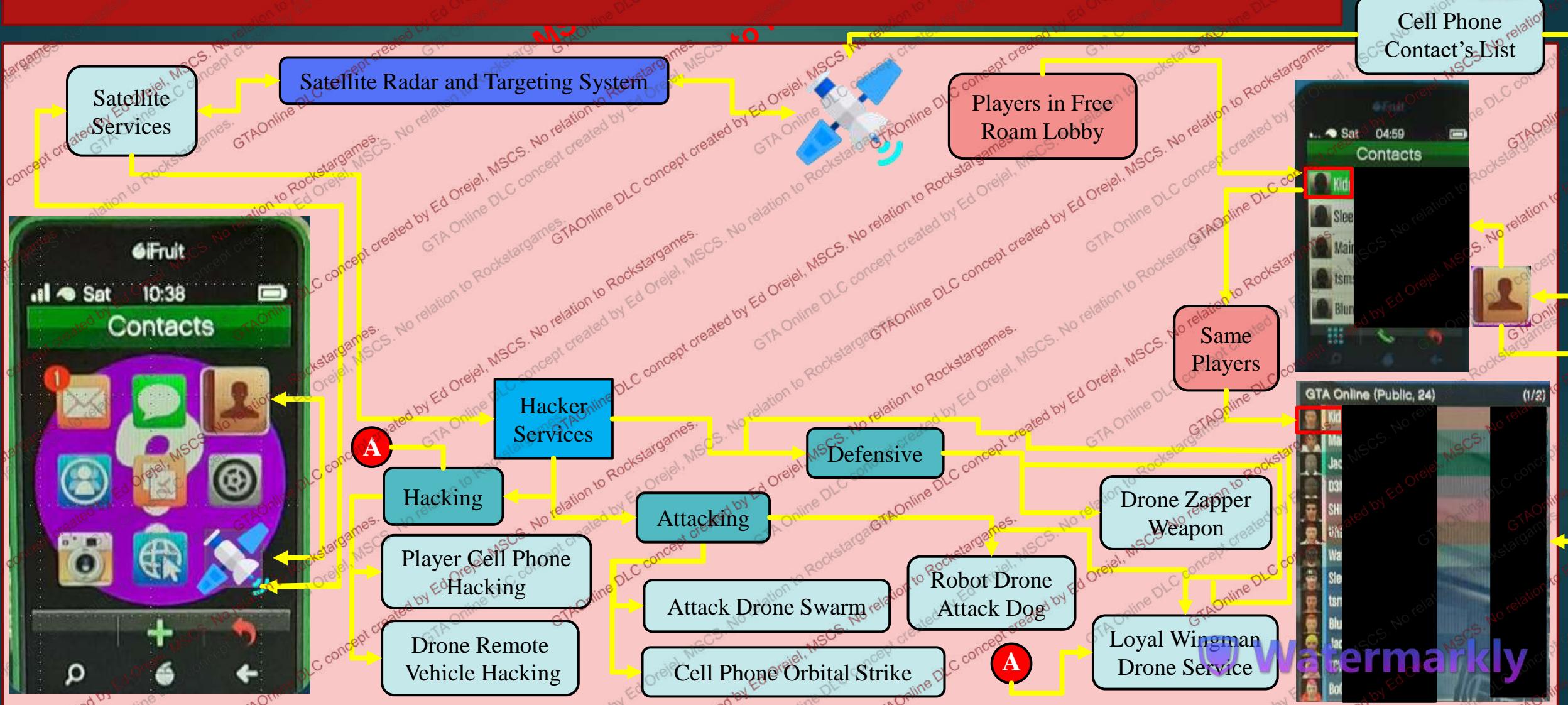
Cell Phone
Contact's List



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GTA Online Spy Satellite DLC - Overview of Spy Satellite – Top-Level Component View – Hacker Services



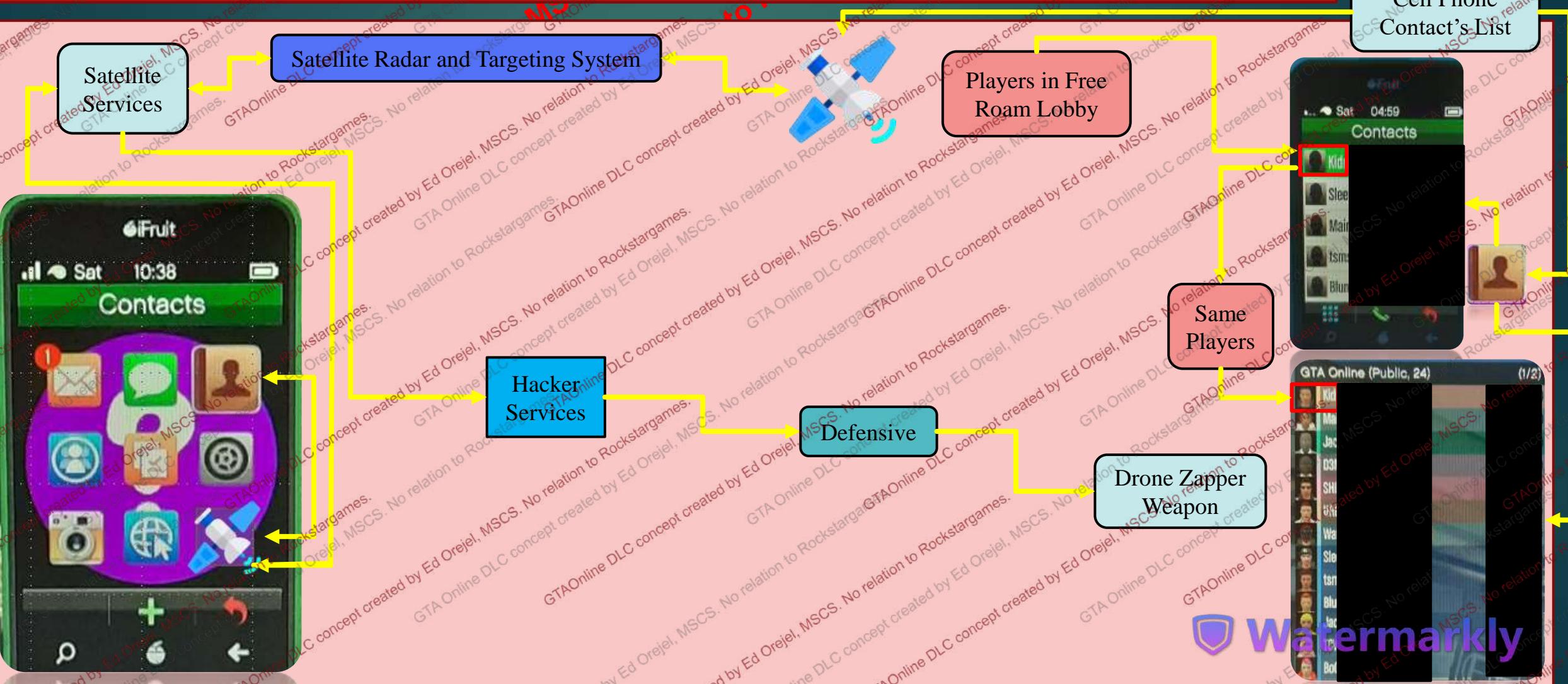
GTA Online Spy Satellite DLC -

Overview of Spy Satellite – Sub-Component View – Hacking Services – Drone Zapper Weapon

37



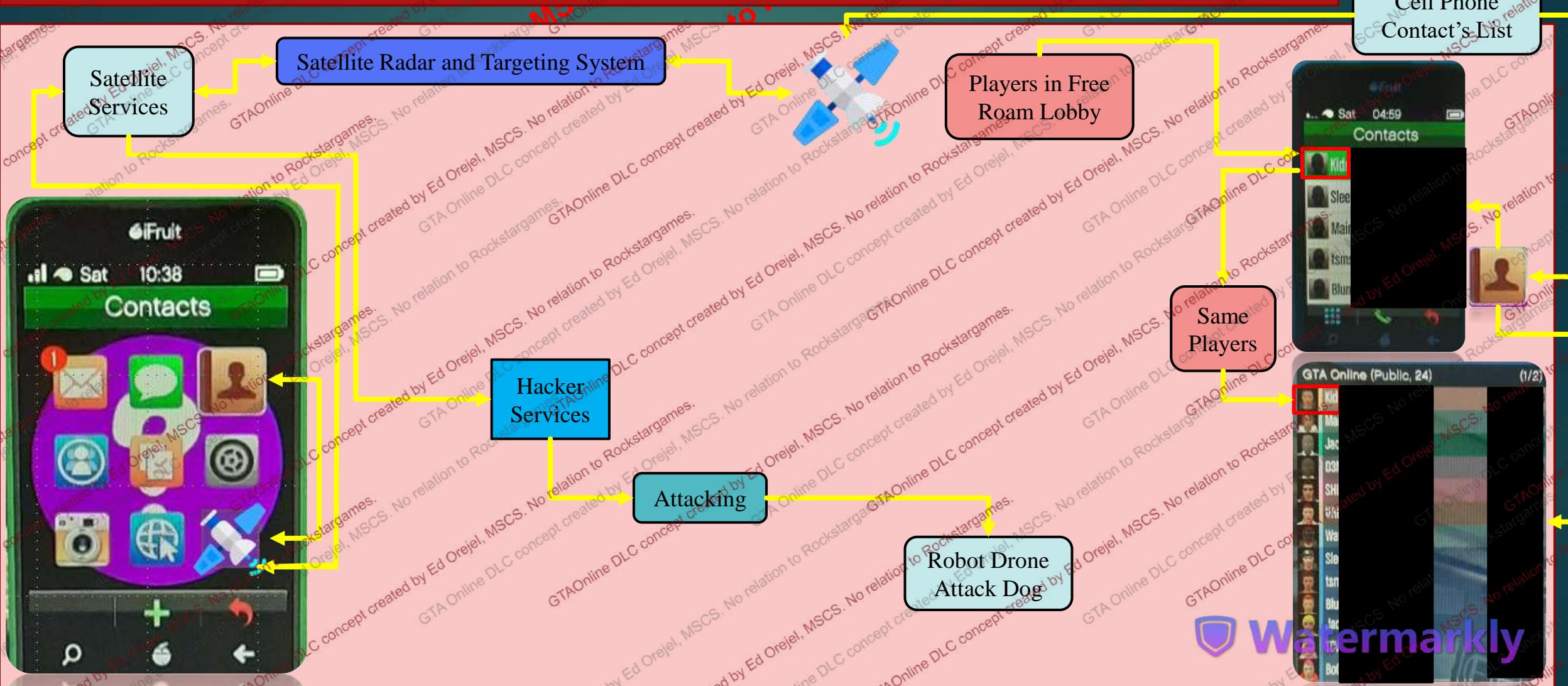
Cell Phone
Contact's List



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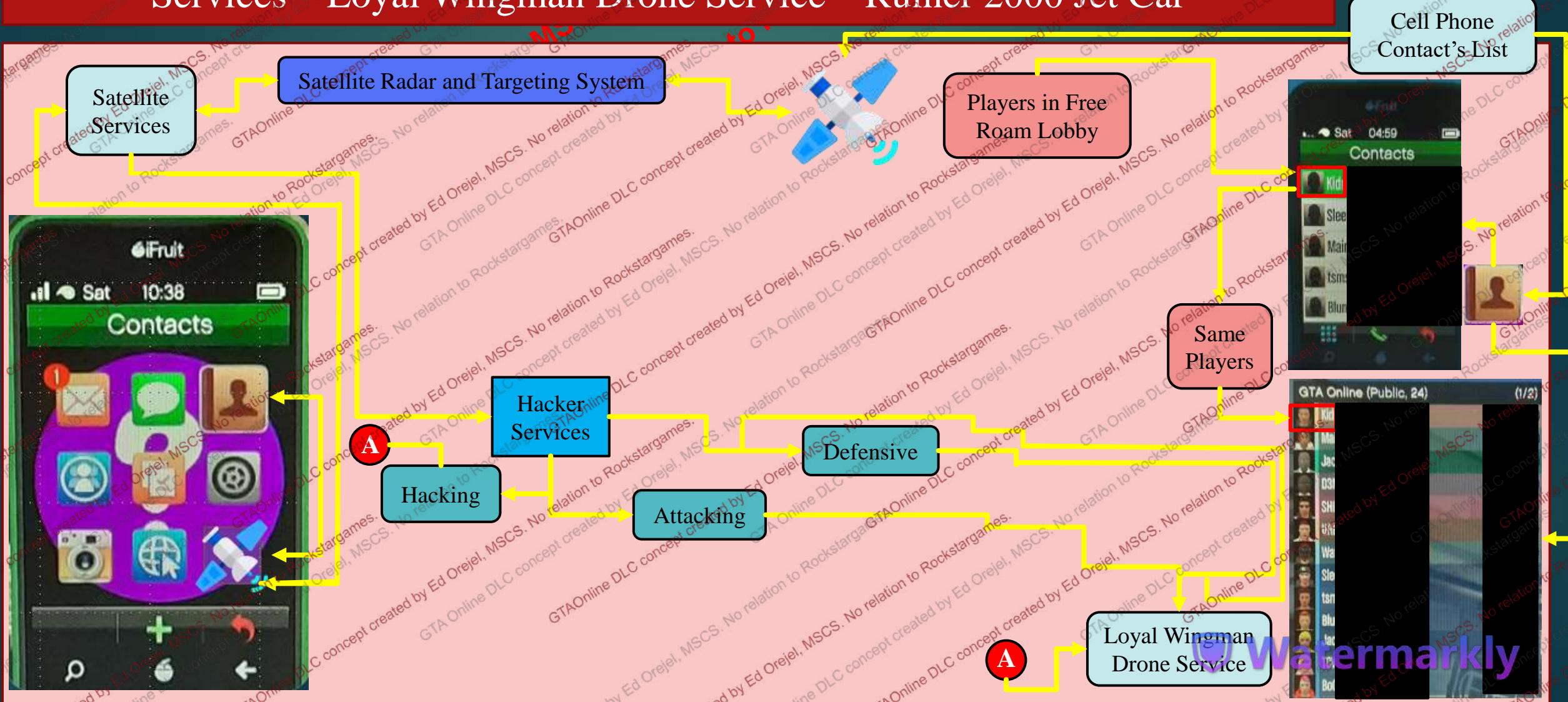
GTA Online Spy Satellite DLC - Overview of Spy Satellite – Sub-Component View – Hacking Services – Robot Drone Attack Dog

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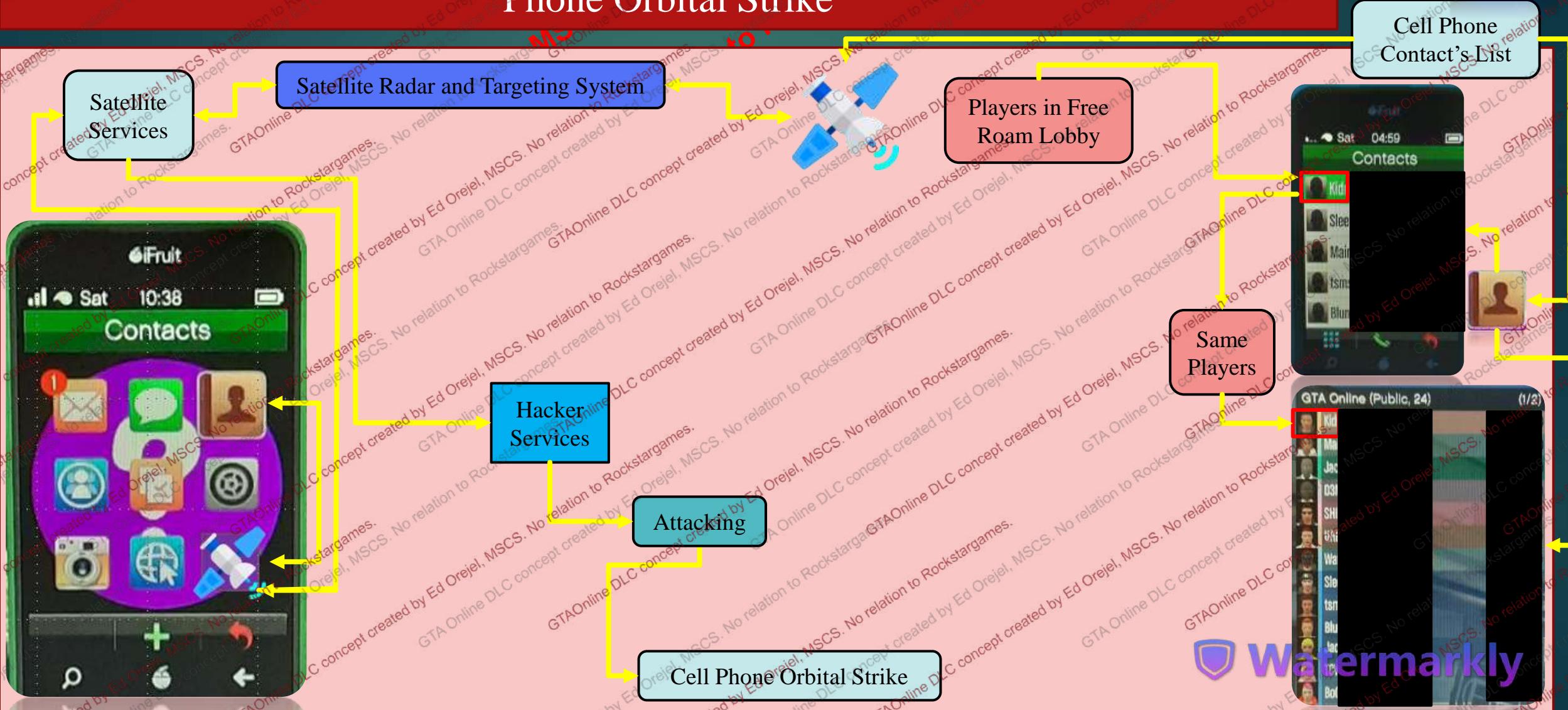
GTA Online Spy Satellite DLC -

Overview of Spy Satellite – Top-Level Component View – Hacker Services – Loyal Wingman Drone Service – Ruiner 2000 Jet Car



GTA Online Spy Satellite DLC - Overview of Spy Satellite – Sub-Component View – Hacking Services – Cell Phone Orbital Strike

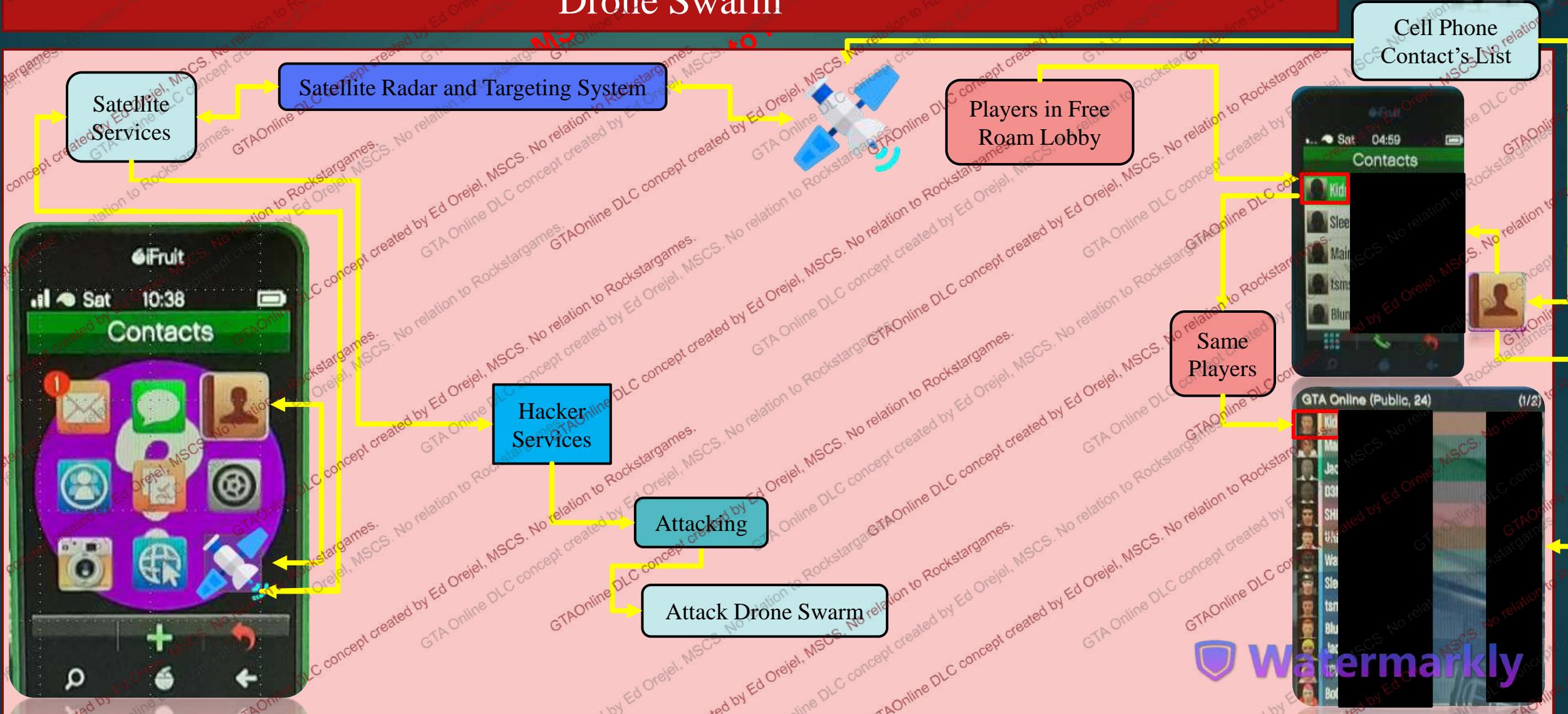
40



GTA Online Spy Satellite DLC -

Overview of Spy Satellite – Sub-Component View – Hacking Services – Attack Drone Swarm

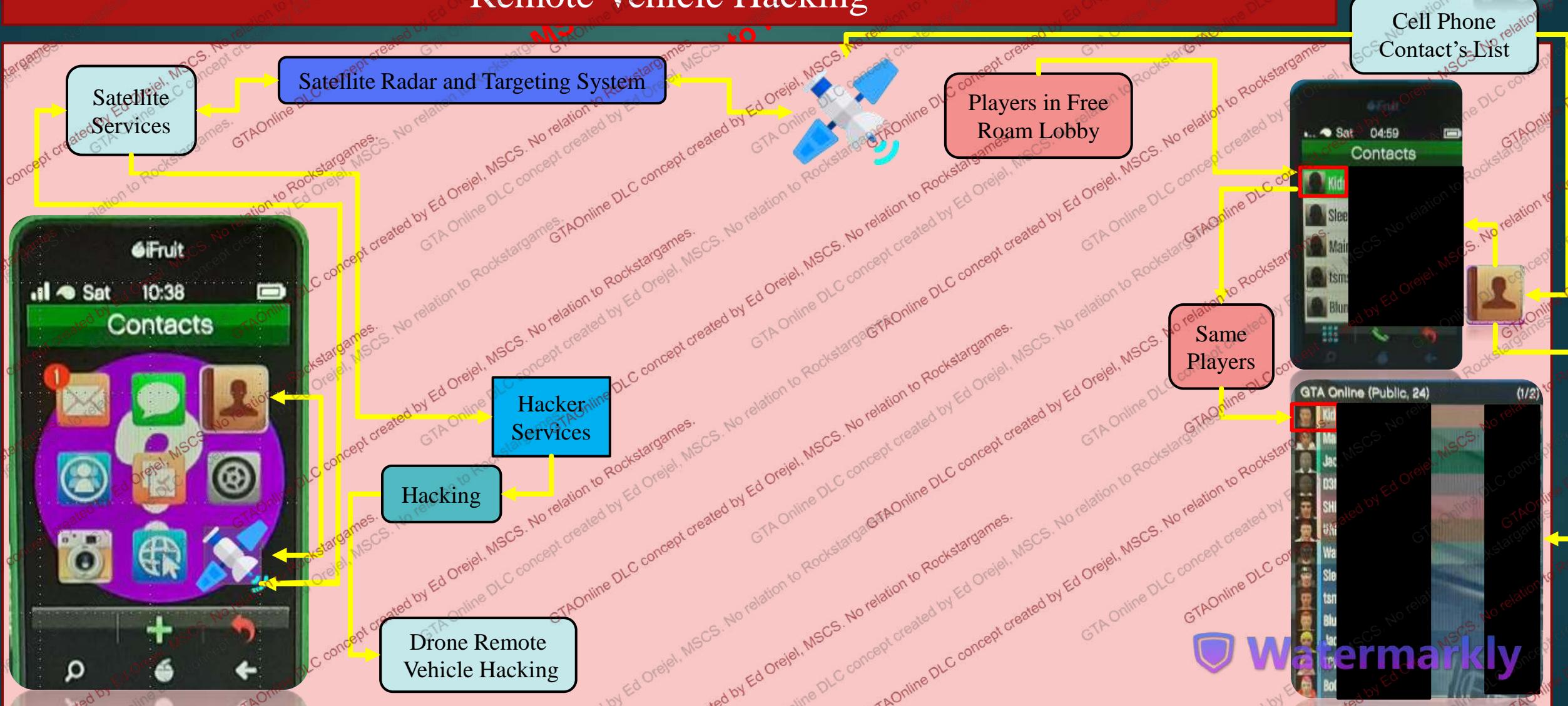
41



GTA Online Spy Satellite DLC -

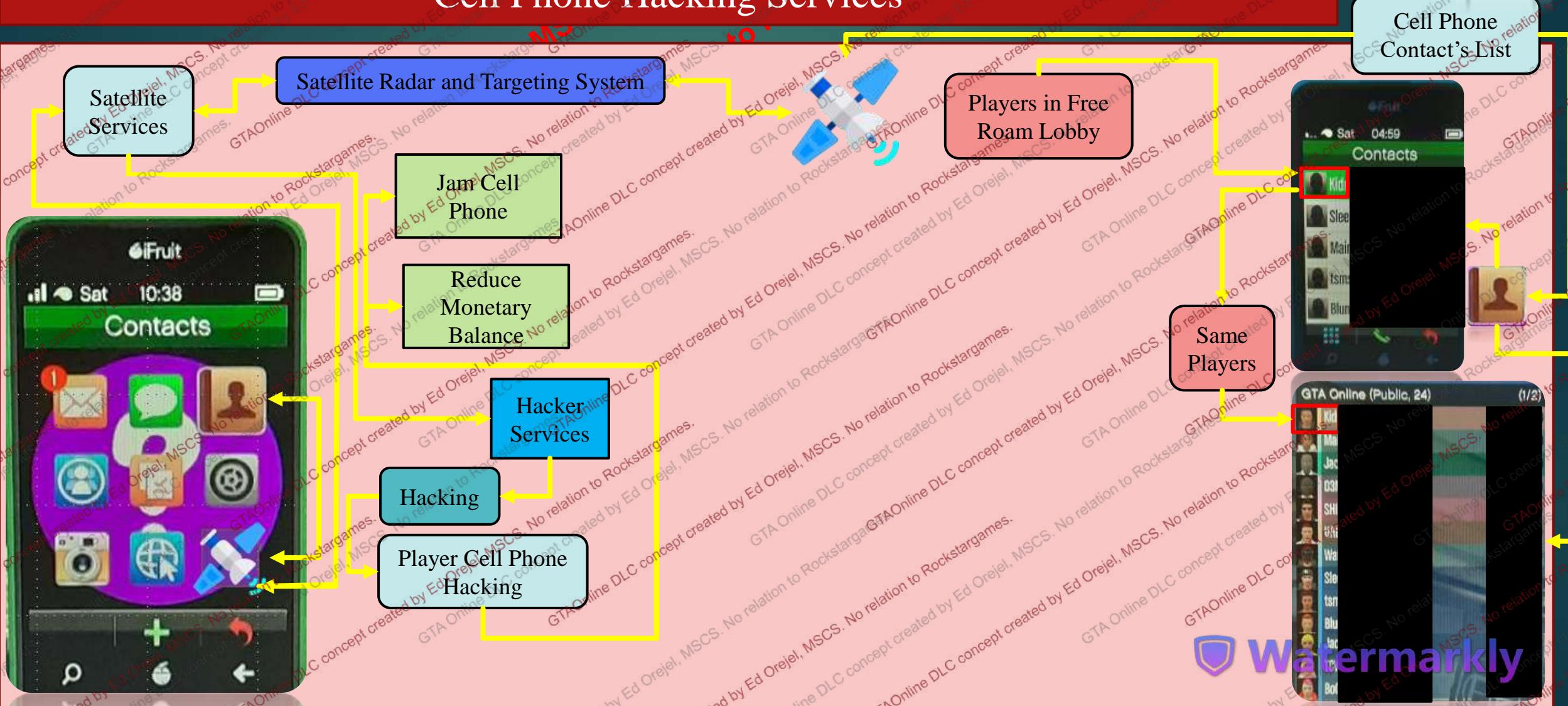
Overview of Spy Satellite – Sub-Component View – Hacking Services – Drone Remote Vehicle Hacking

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GTA Online Spy Satellite DLC - Overview of Spy Satellite – Sub-Component View – Hacking Services – Player Cell Phone Hacking Services

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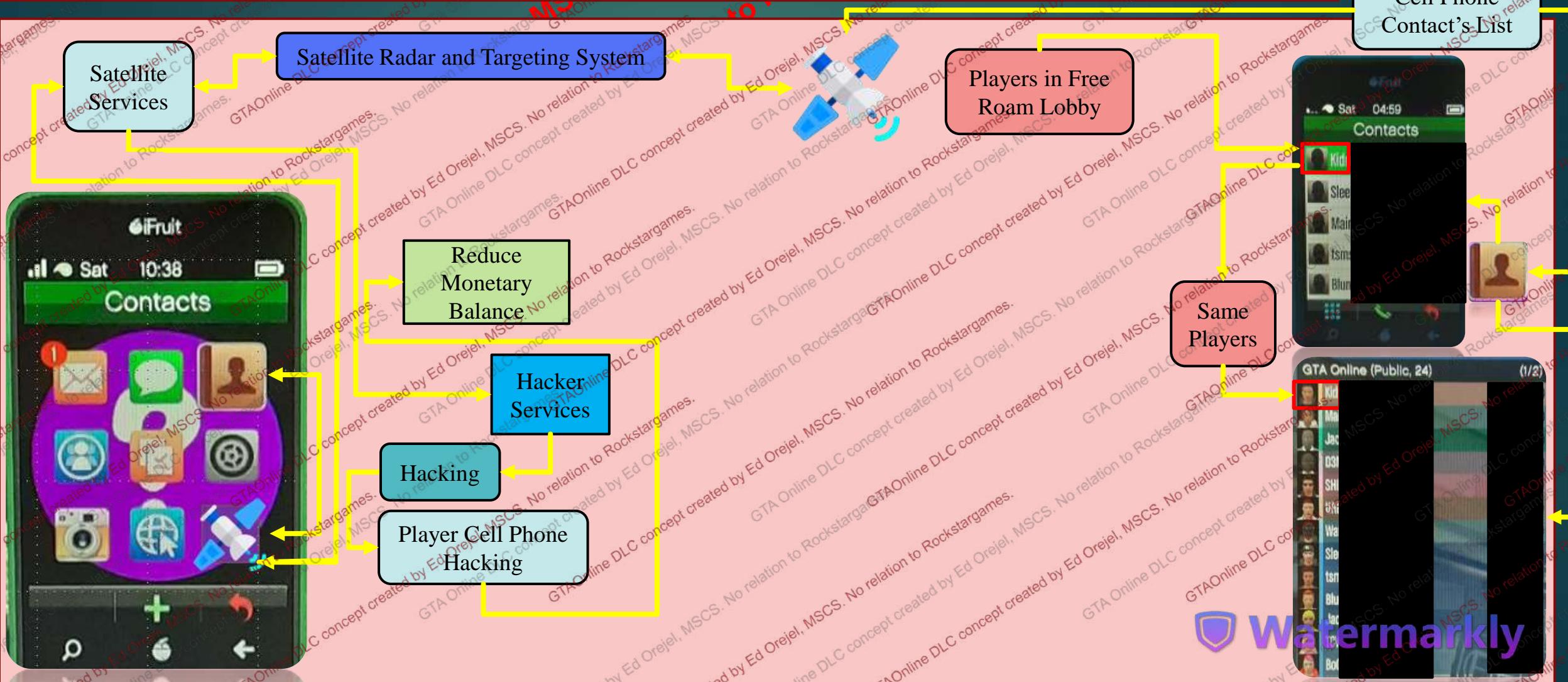
GTA Online Spy Satellite DLC -

Overview of Spy Satellite – Sub-Component View – Hacking Services – Player Cell Phone Hacking Services – Reduce Monetary Balance

44

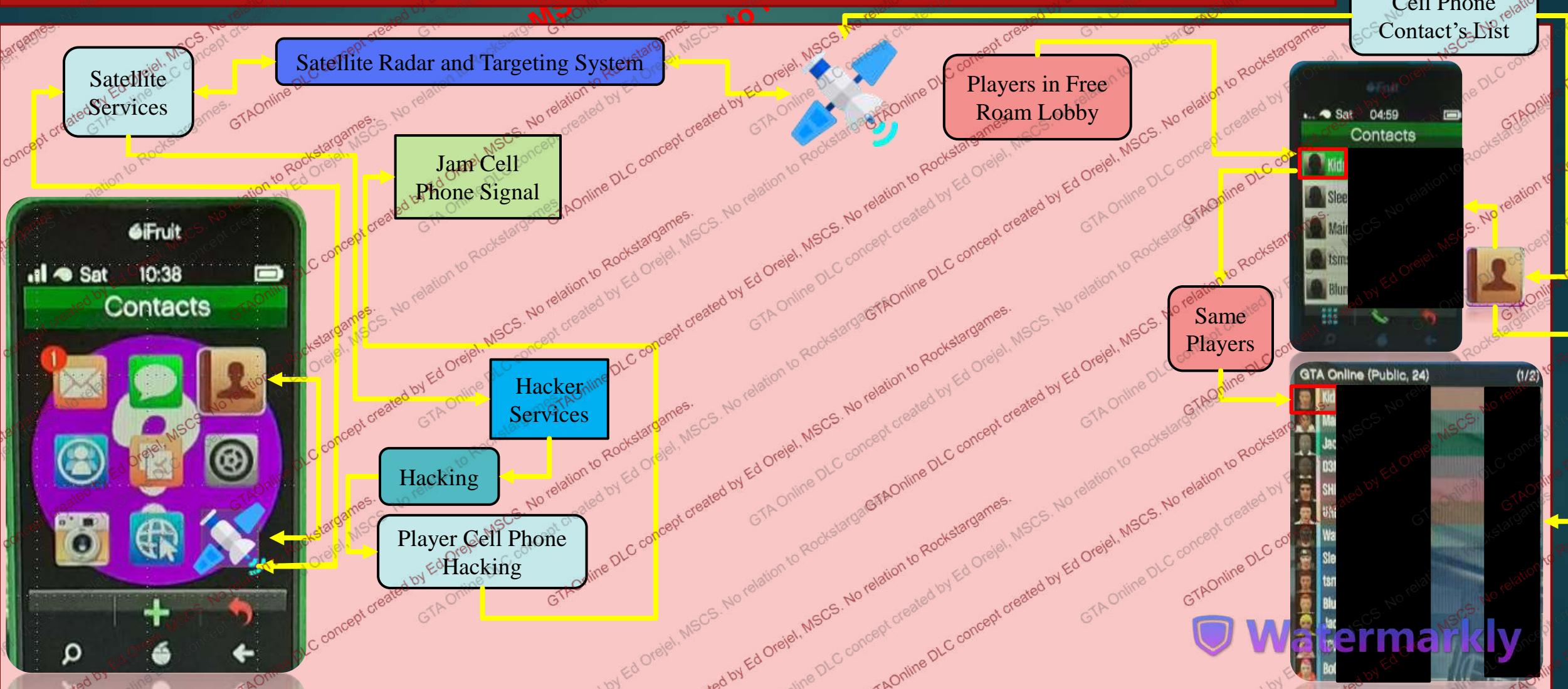


Cell Phone
Contact's List



GTA Online Spy Satellite DLC - Overview of Spy Satellite – Sub-Component View – Hacking Services – Player Cell Phone Hacking Services – Jam Cell Phone Signal

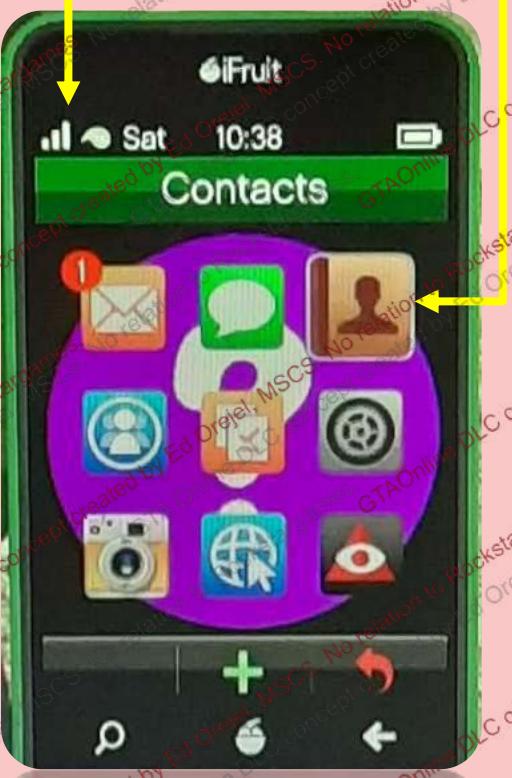
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GTA Online Spy Satellite DLC – Shadow Hacker Group – Overview of Services

Phone signal from satellite.



Shadow Hacker Group will provide the following spy satellite services to GTA Online players in free roam only:

- Hacking Services
- Attacking Services
- Defensive Services

Hacking Services will consist of the following:

1. Vehicle Hacking Drone Service
 1. Drone hacks and takes control of targeted player's vehicle allowing remote operation.
 2. Drone can also hack other vehicles to create ghost cars, that is, cars driven without a driver, controlled by the drone operator.
2. Cell Phone Hacking Service
 1. Reducing monetary amount from bank account.
 2. Other types of cell phone hacking attempts.
 3. Jamming the cell phone signal.

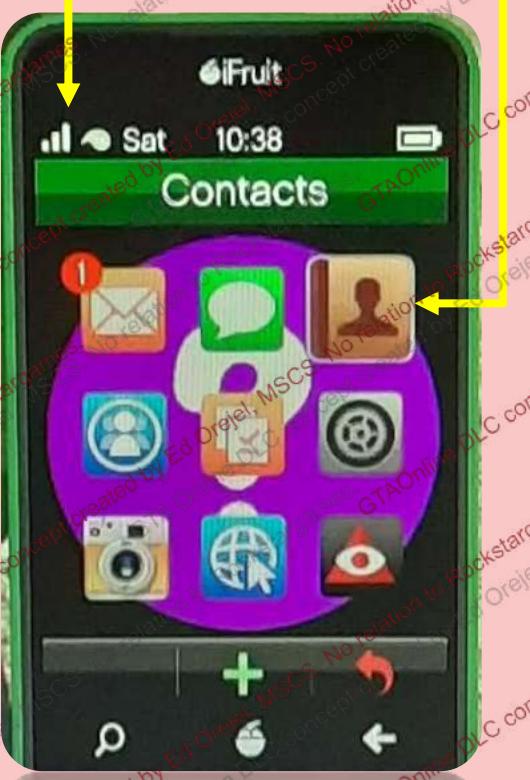


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GTA Online Spy Satellite DLC – Shadow Hacker Group – Overview of Services Continued

Phone signal from satellite.



Shadow Hacker Group will provide the following spy satellite services to GTA Online players in free roam only:

- Hacking Services
- Attacking Services
- Defensive Services

Attacking Services will consist of the following:

1. Attack Drone Swarm Service
2. Cell Phone Orbital Cannon Service
3. Loyal Wingman Drone – Ruiner 2000 Jet Mode Drone
4. Attack robot drone dog. Four variants:
 1. A sniper rifle equipped robot dog.
 2. A railgun equipped robot dog.
 3. An RPG equipped robot dog.
 4. A grenade launcher equipped robot dog.

Defensive Services

1. Drone zapper weapon
 1. This weapon is required to detect, disable, and destroy all in-game drones.
 2. Drones deployed before the spy satellite launched can also be destroyed by the Drone Zapper.



TO



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GTA Online Spy Satellite DLC – Spy Satellite - Military Services

Phone signal from satellite.



Military spy satellite contact will provide the following services to GTA Online players in free roam only:

- Smart Weapons
- Military Platoon Attack Service

Military Platoon Attack Service

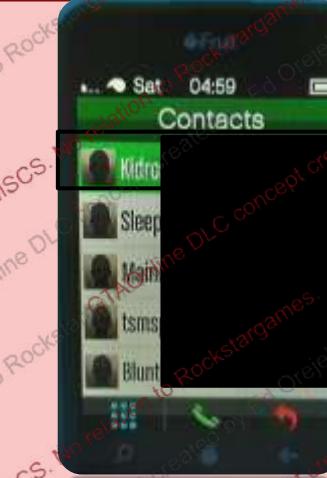
1. A small platoon will attack the targeted player at their current location.

Smart weapons will consist of the following:

1. Intelligent Sniper Rifle with smart ammunition.
2. Intelligent Grenade Launcher with smart ammunition.
3. Intelligent Pistol with smart ammunition.
4. Intelligent Uzi with smart ammunition.

Aerial Attack Predator or Reaper Drones

1. Single missile option.
2. Missile barrage option.
3. Kamikaze drone option



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GTA Online Spy Satellite DLC - Military Spy Satellite Services – Overview of Military Platoon Attack Service

49



MP
TO

The Military Platoon Attack Service will dispatch a small group of military NPCs to attack the player. It is similar in scope to the Merryweather Mercenaries service. The military platoon attacks will come by land, sea, and air. The service is unlocked, and available from the spy satellite.

The Military Platoon Attack Service will consist of a combination of military attack vehicles, and troops transport non-attack military vehicles.

All vehicles will travel to the player's current location to strategically attack the player. The military attack vehicles will use their onboard weapons to attack the player. The non-attack military transport vehicles will unload military NPCs to attack the player.

The targeted player will be attacked until their energy level is drained. To beat the platoon attack, the player must defeat all the military platoon NPCs. If this rule is not implemented, the player may just let themselves be killed by the service, and not engage against them. The player must engage!

The total NPC count that the targeted player must fight off should be a decent number of NPCs. Using the Military Platoon Attack Service, a small platoon of 10 to 15 military NPCs should attack the player.



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GTA Online Spy Satellite DLC - Military Spy Satellite Services – Overview of Military Platoon Attack Service – Player Rewards - Badges

50

MP
TO



During the Military Platoon Attack Service, if the player decides to take the “easy way out” with a self-inflicted RPG round for example, this will not count as a method to defeat the military platoon.

The player will have to engage against the Military Platoon Attack Service, beat all of the NPCs in the service, be killed by the Military Platoon Attack Service, or leave the lobby for a new lobby, in order to defeat the Military Platoon Attack Service.

There should be a reward earned after each particular outcome that is chosen by the player to “exit out” of the fight against the Military Platoon Attack Service.

Four available outcomes are:

- Victory – award given when player beats the military platoon without losing a life.
- Courage – award given when player dies one time, but still defeats the military platoon.
- Death – award given when player loses a life against the military platoon and cannot defeat them.
- Chicken – award given when player leaves the lobby for a new lobby to avoid the fight.

With each badge that is earned, masks can be awarded to the player.



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GTA Online Spy Satellite DLC - Military Spy Satellite Services – Overview of Military Platoon Attack Service – Player Rewards - Masks

51

MP
TO



Victory Mask



Courage Mask



Death Mask

The mask that are awarded to the players should match the outcome, and the combat award that is given after the fight with the Military Platoon Attack Service.

I have posted these examples to help illustrate the concept:

- Victory Mask – awarded after players earn the Victory Badge.
- Courage Mask – awarded after players earn the Courage Badge.
- Death Mask – awarded after players earn the Death Badge.
- Chicken Mask – awarded after players earn the Chicken Badge.



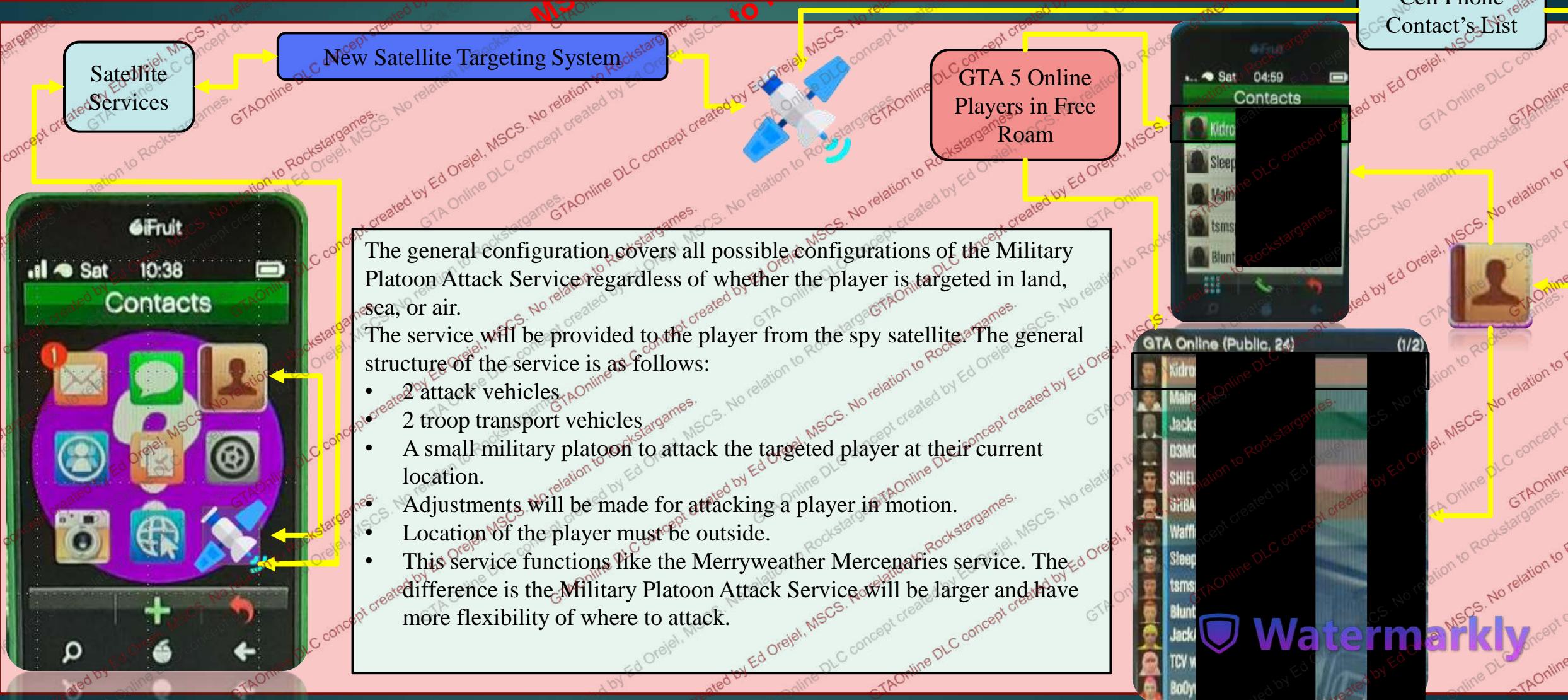
Chicken Mask

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GTA Online Spy Satellite DLC – Military Services -Military Platoon Attack Service – General Configuration – Land Attack



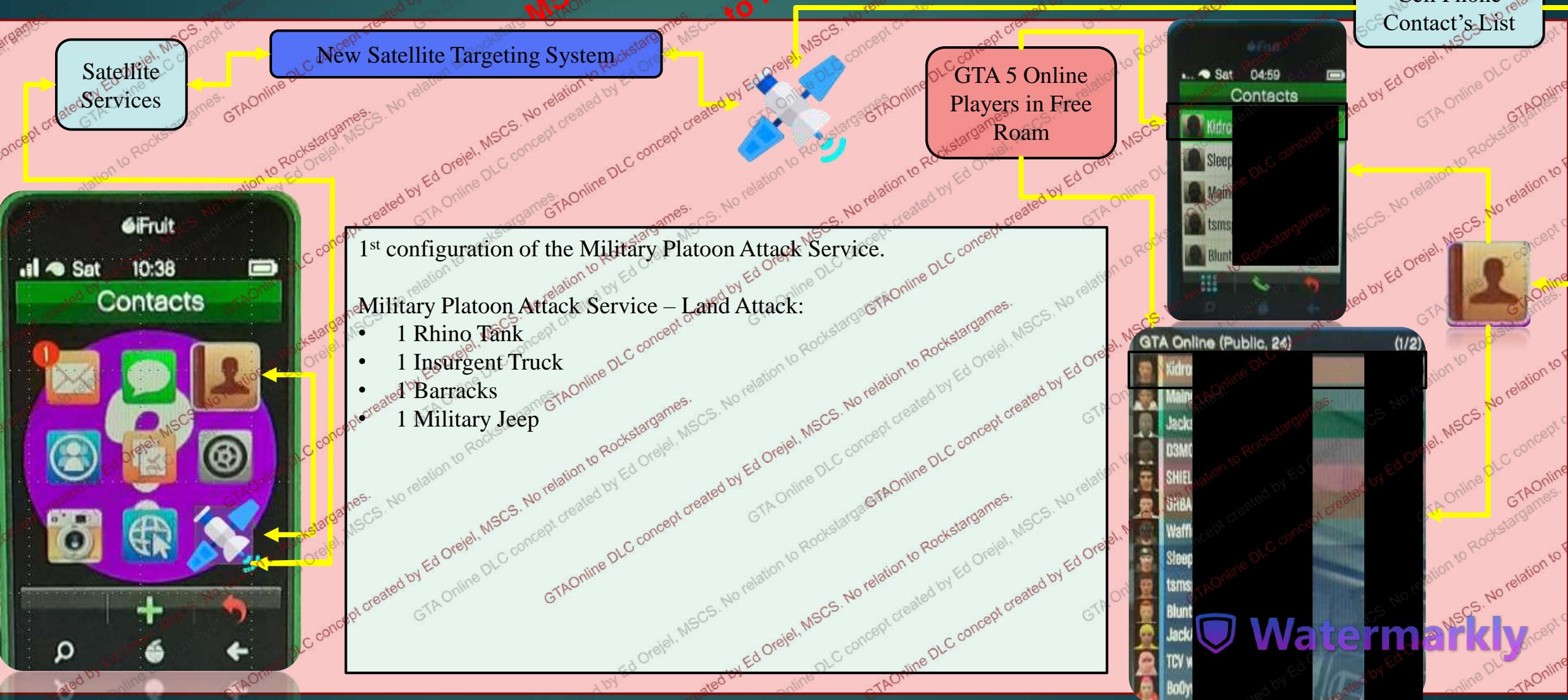
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GTA Online Spy Satellite DLC – Military Services -Military Platoon Attack Service – Land Attack – 1st Configuration

Cell Phone
Contact's List



GTA Online Spy Satellite DLC - Military Spy Satellite Services - Military Platoon Attack Service – Land Attack – 1st Configuration Implementation

54



MP
TO



Vehicle Type: Barracks - Total NPCs in vehicle: 6 to 8.
Source: https://gta.fandom.com/wiki/Barracks_OL



Vehicle Type: Canis Crusader - Total NPCs: 4.
Source: <https://gta.fandom.com/wiki/Crusader>



Vehicle Type: Insurgent Pick-up - Total NPCs in vehicle: 2
Source: https://gta.fandom.com/wiki/Insurgent_Pick-Up



Vehicle Type: Rhino Tank – Total NPCs in vehicle: 2
Source: <https://gta.fandom.com/wiki/Rhino>



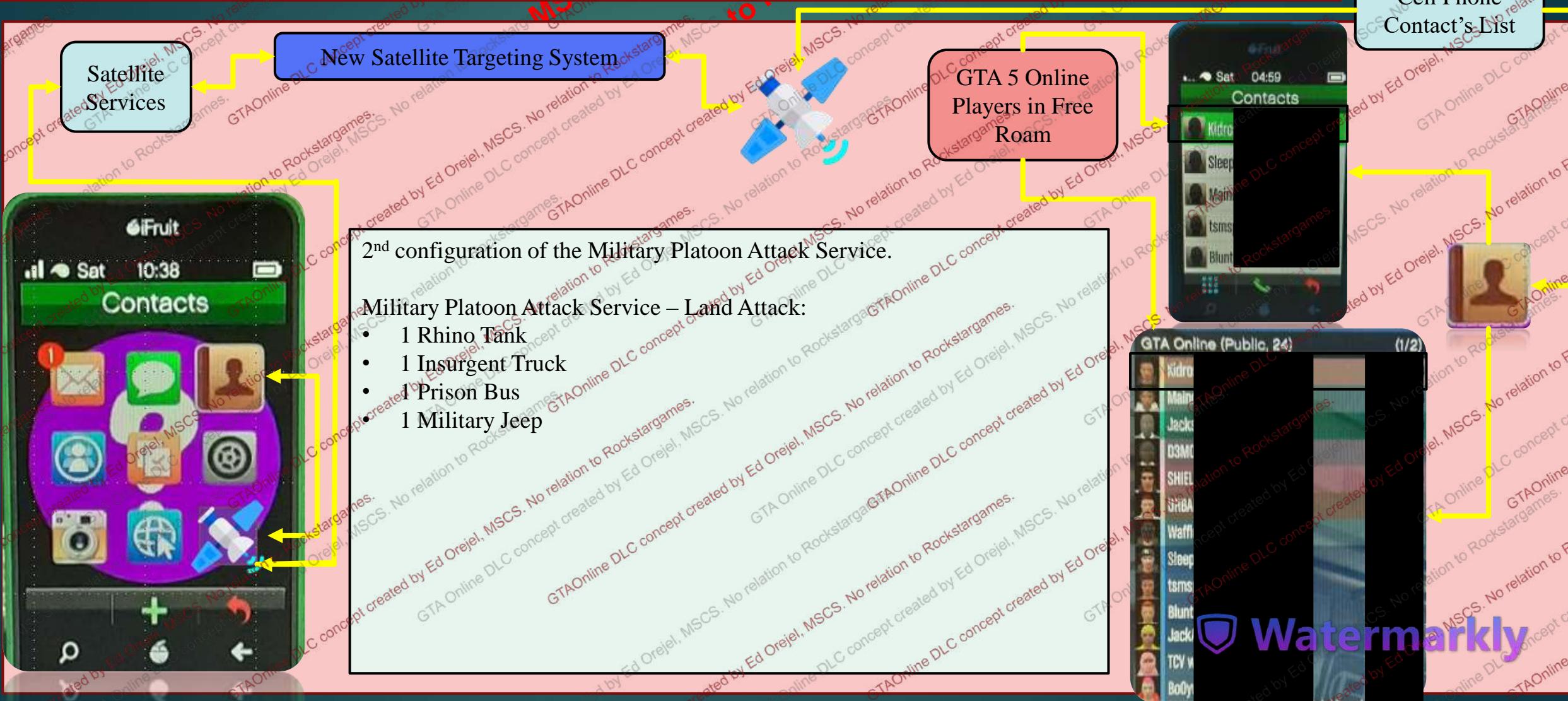
Entity Type: Military NPC
The total NPC count that the targeted player must fight off should be a decent number of NPCs, if memory resources, and logic keep it realistic. Using the Military Platoon Attack Service, a small platoon of 10 to 15 military NPCs should attack the player.

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GTA Online Spy Satellite DLC – Military Services -Military Platoon Attack Service – Land Attack – 2nd Configuration Implementation



GTA Online Spy Satellite DLC - Military Spy Satellite Services - Military Platoon Attack Service – Land Attack – 2nd Configuration Implementation

56



Vehicle Type: Prison Bus - Total NPCs in vehicle: 6 to 8, but could be a full bus of military NPCs
Source: https://gta.fandom.com/wiki/Barracks_OL



Vehicle Type: Canis Crusader - Total NPCs: 4.
Source: <https://gta.fandom.com/wiki/Crusader>



Vehicle Type: Insurgent Pick-up - Total NPCs in vehicle: 2
Source: https://gta.fandom.com/wiki/Insurgent_Pick-Up



Vehicle Type: Rhino Tank – Total NPCs in vehicle: 2
Source: <https://gta.fandom.com/wiki/Rhino>



Entity Type: Military NPC
The total NPC count that the targeted player must fight off should be a decent number of NPCs, if memory resources, and logic keep it realistic. Using the Military Platoon Attack Service, a small platoon of 10 to 15 military NPCs should attack the player.

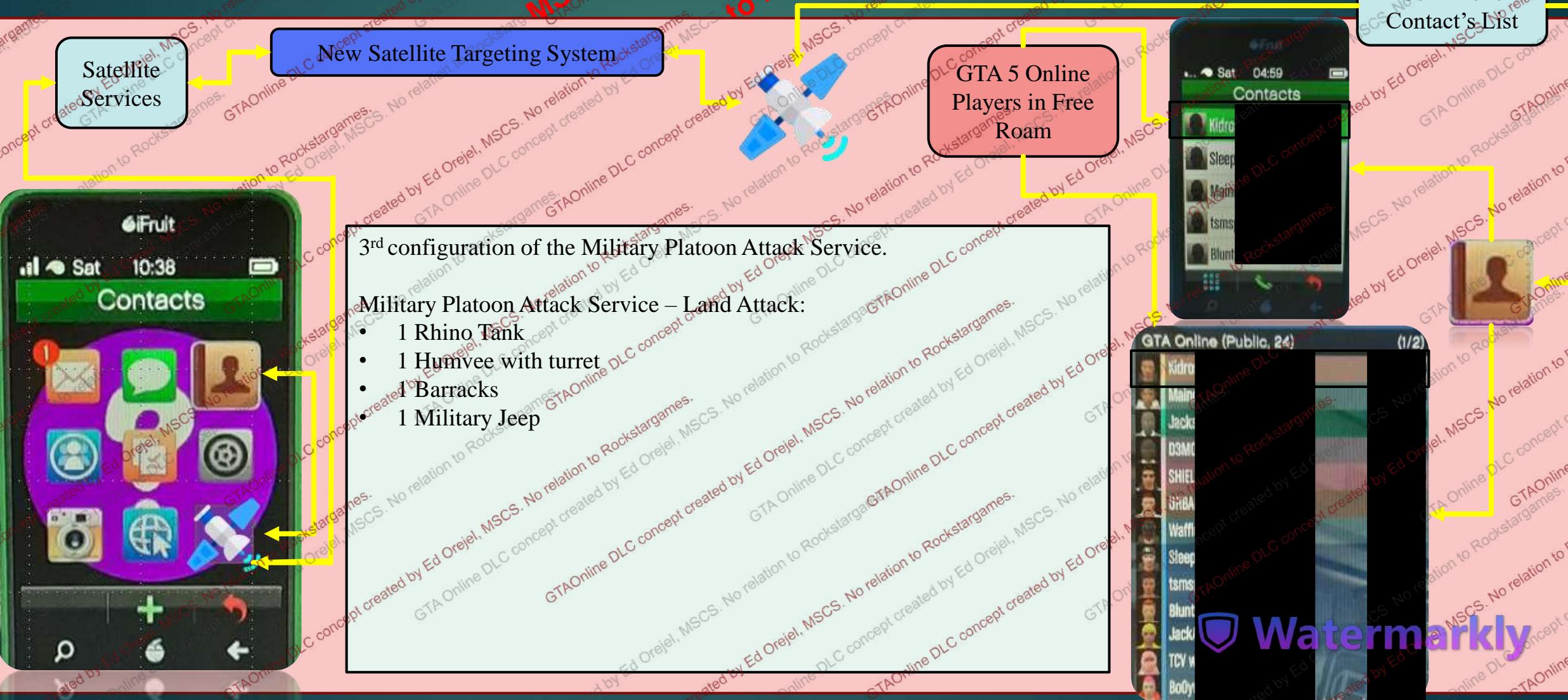
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57

GTA Online Spy Satellite DLC – Military Services -Military Platoon Attack Service – Land Attack – 3rd Configuration

Cell Phone
Contact's List



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GTA Online Spy Satellite DLC - Military Spy Satellite Services - Military Platoon Attack Service – Land Attack – 3rd Configuration Implementation

58



Vehicle Type: Barracks - Total NPCs in vehicle: 6 to 8.
Source: https://gta.fandom.com/wiki/Barracks_OL



Vehicle Type: Canis Crusader - Total NPCs: 4.
Source: <https://gta.fandom.com/wiki/Crusader>



Vehicle Type: Humvee with turret - Total NPCs in vehicle: 2
Source: https://gta.fandom.com/wiki/Insurgent_Pick-Up



Vehicle Type: Rhino Tank – Total NPCs in vehicle: 2
Source: <https://gta.fandom.com/wiki/Rhino>



Entity Type: Military NPC
The total NPC count that the targeted player must fight off should be a decent number of NPCs, if memory resources, and logic keep it realistic. Using the Military Platoon Attack Service, a small platoon of 10 to 15 military NPCs should attack the player.



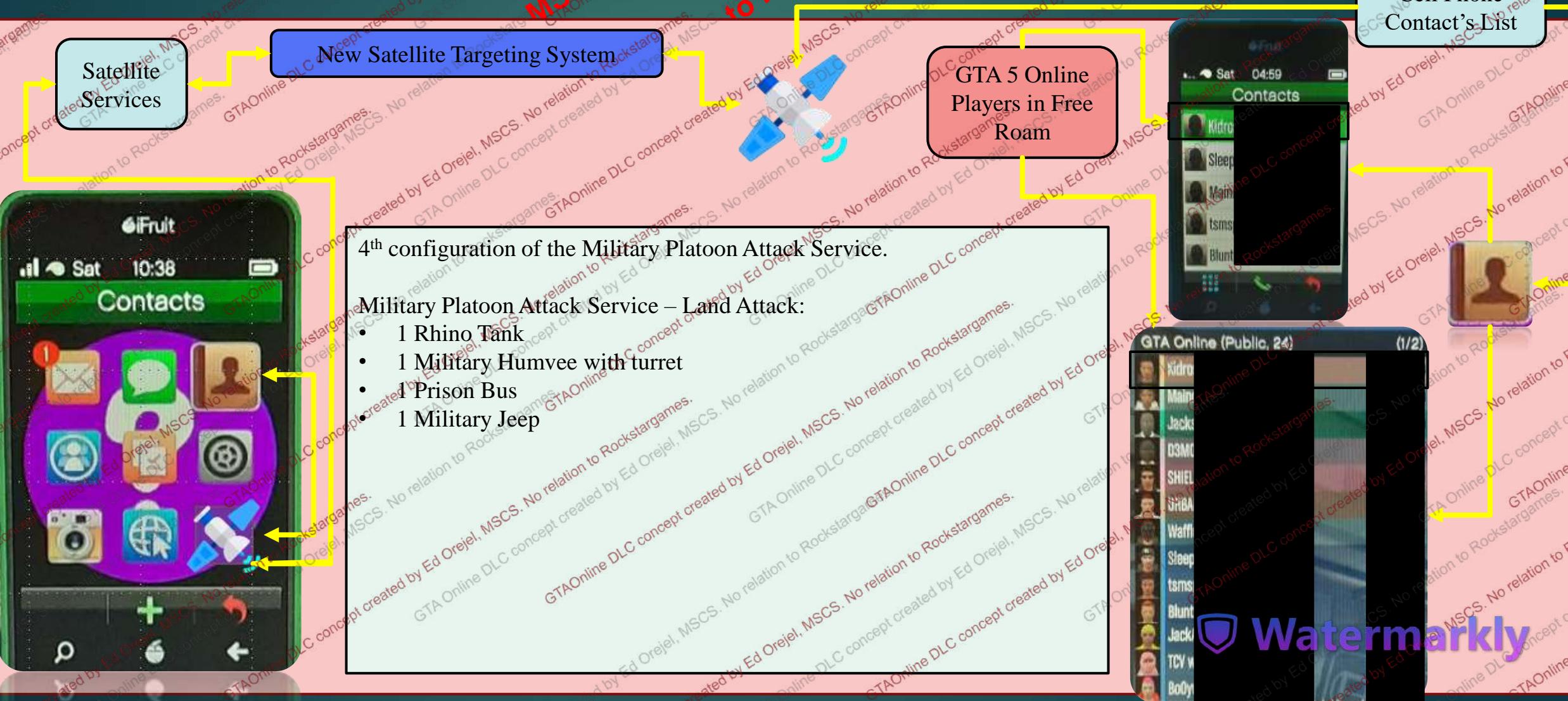
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59

GTA Online Spy Satellite DLC – Military Services -Military Platoon Attack Service – Land Attack – 4th Configuration

Cell Phone
Contact's List



GTA Online Spy Satellite DLC - Military Spy Satellite Services - Military Platoon Attack Service – Land Attack – 4th Configuration Implementation

60



Vehicle Type: Prison Bus - Total NPCs in vehicle: 6 to 8 but could be a full bus of military NPCs.
Source: https://gta.fandom.com/wiki/Barracks_OL



Vehicle Type: Canis Crusader - Total NPCs: 4.
Source: <https://gta.fandom.com/wiki/Crusader>



Vehicle Type: Humvee with turret - Total NPCs in vehicle: 2.
Source: https://gta.fandom.com/wiki/Insurgent_Pick-Up



Vehicle Type: Rhino Tank – Total NPCs in vehicle: 2.
Source: <https://gta.fandom.com/wiki/Rhino>



Entity Type: Military NPC
Entity Purpose: The total NPC count that the targeted player must fight off should be a decent number of NPCs, if memory resources, and logic keep it realistic. Using the Military Platoon Attack Service, a small platoon of 10 to 15 military NPCs should attack the player.



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GTA Online Spy Satellite DLC - Military Spy Satellite Services - Military Platoon Attack Service – Land Transport Vehicles

61

MP
TO



Vehicle Type: Prison bus - a military version of the prison bus is also suitable. It will carry 4 or 6 military NPCs to the player's location. The military NPCs will exit the vehicle to strategically attack the player. The NPCs can also attack the target player from the inside of the vehicle.

Total NPCs in vehicle: 6 to 8, or a full bus of military NPCs.

Source: https://gta.fandom.com/wiki/Prison_Bus



Vehicle Type: Barracks - this vehicle will function like the bus. It will transport military NPCs to the player's location. The military NPCs will exit the vehicle, then strategically attack the player.

Total NPCs in vehicle: 6 to 8.

Source: https://gta.fandom.com/wiki/Barracks_OL



Vehicle Type: Canis Crusader - Total NPCs: 4.

Source: <https://gta.fandom.com/wiki/Crusader>



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GTA Online Spy Satellite DLC - Military Services - Military Platoon Attack Service – Land Attack Vehicles

62



MP
TO



Vehicle Type: Insurgent Pick-up - this vehicle will carry two military NPCs. A driver and a gunner will both drive to the player's current location. The gunner will operate the turret and try to eliminate the targeted player. The military NPC driver will exit the vehicle and attack the player strategically using a weapon. The target player will be pursued by the Insurgent Pick-up until the player is terminated. Other behaviors may be programmed into the NPCs, as needed. This vehicle could be chosen.

Source: https://gta.fandom.com/wiki/Insurgent_Pick-Up



Vehicle Type: Rhino Tank – this vehicle will travel to the player's current location, and strategically attack the player. The military NPC driver of the Rhino Tank may exit the vehicle to attack the player, when the Rhino Tank becomes immobilized by the player's fire but has not yet exploded. The target player will be pursued until the target player is terminated. Other behaviors may be programmed into the NPCs, as needed. This vehicle is required.

Source: <https://gta.fandom.com/wiki/Rhino>



Vehicle Type: Humvee with turret- this vehicle will carry a driver and a gunner for the turret. It will function like the previously listed attack vehicles. This vehicle could be chosen. It should be included in GTA Online.

Source: generic military weaponized Humvee.

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GTA Online Spy Satellite DLC - Military Services - Military Platoon Attack Service – Alternative Land Transport Vehicles

63



Vehicle Type: Pontiac Firebird Monster Truck Shark 1968 - I like this vehicle from GTA San Andreas. It should be included in GTA Online and be made part of the Military Platoon Attack Service, so that it is driven by the military NPCs to the player's location to attack the player.

Source: <https://www.gtaall.com/gta-san-andreas/cars/111580-pontiac-firebird-monster-truck-shark-1968.html>



Vehicle Type: 2008 GMC Yukon Monster Truck Camo – I like this vehicle for the same reasoning shown above. Military NPCs will exit the vehicle to attack the player.

Source: <https://gammemodding.com/en/gta-san-andreas/cars/82068-2008-gmc-yukon-monster-truck-camo.html>



Vehicle Type: Marshall Monster Truck – This vehicle is already in GTA Online, but it can also be used by the military NPCs that will exit the vehicle to attack the player.

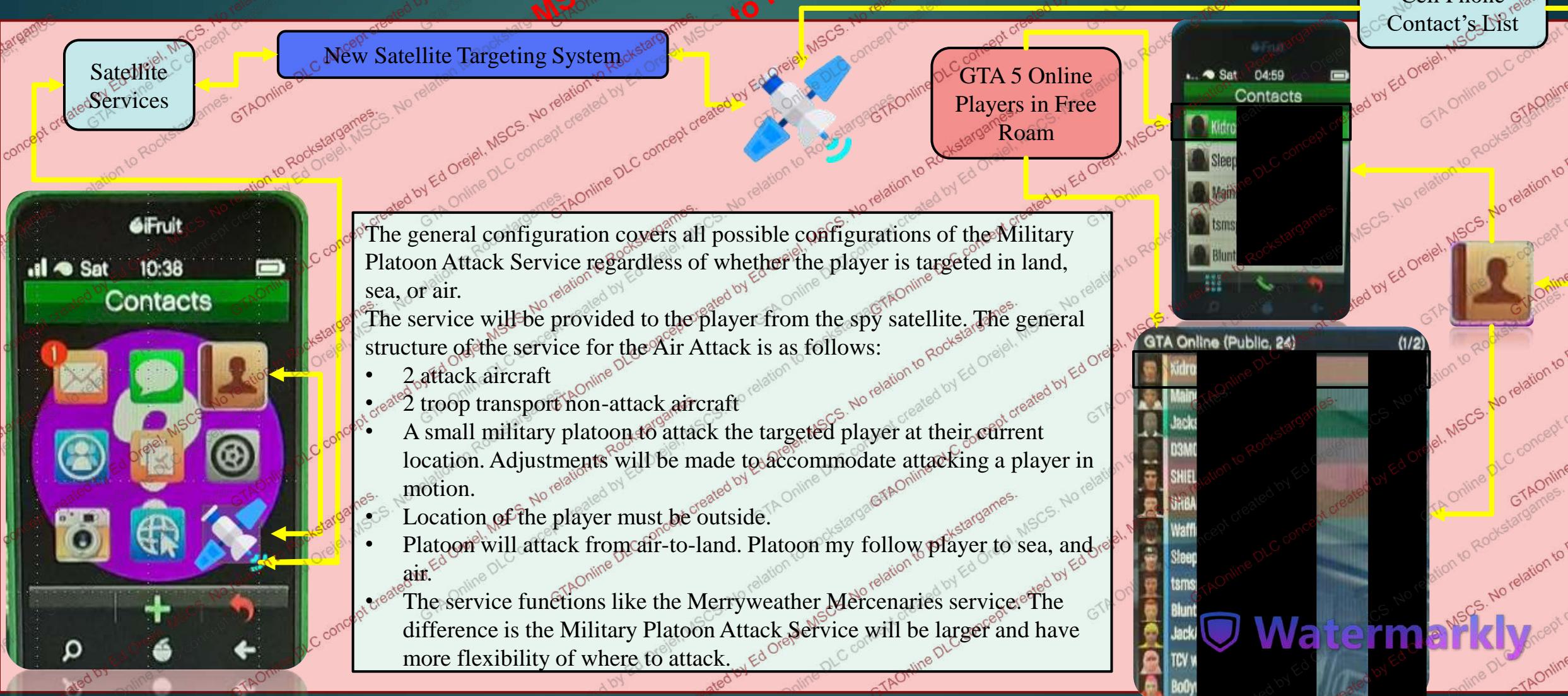
Source: <https://gta.fandom.com/wiki/Marshall>

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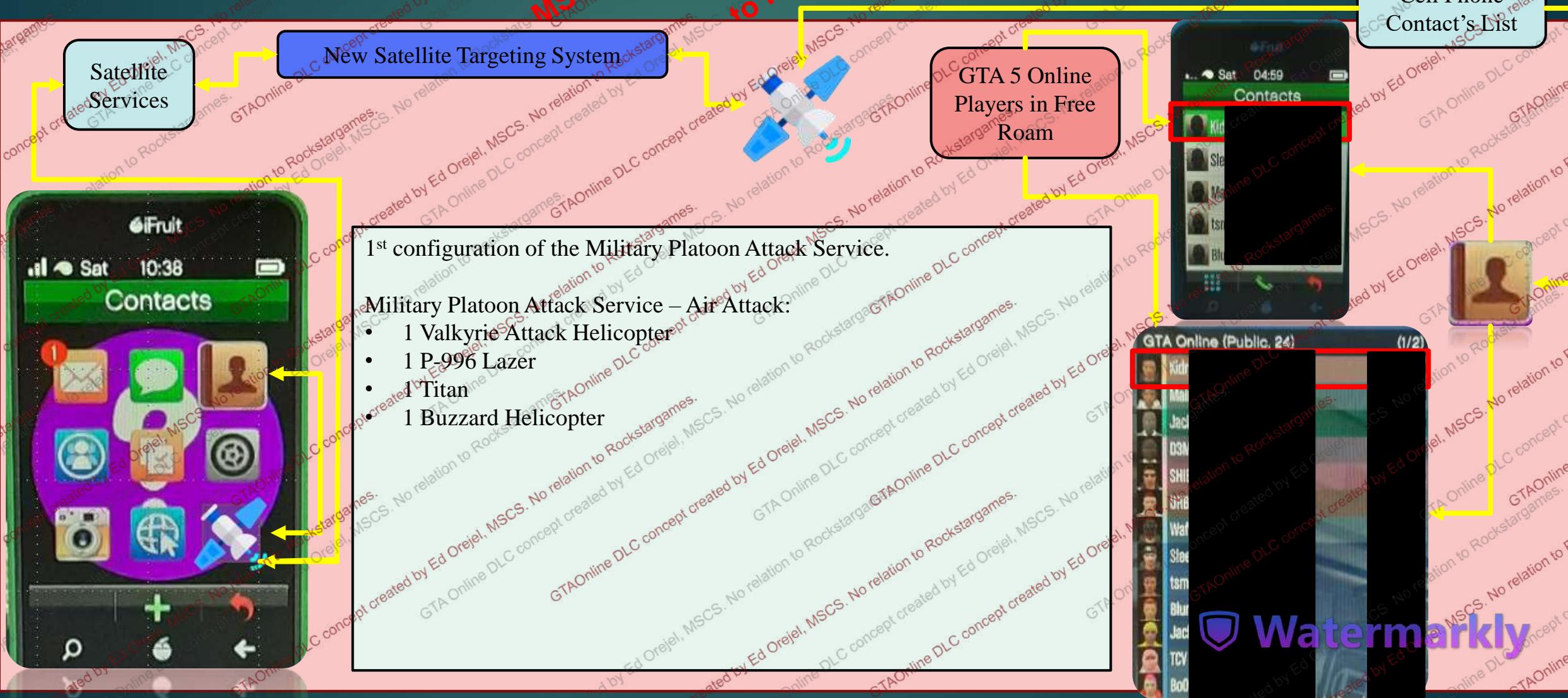
GTA Online Spy Satellite DLC – Military Services - Military Platoon Attack Service – General Configuration – Air-to-Land Attack





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GTA Online Spy Satellite DLC – Military Services -Military Platoon Attack Service – Air-to-Land Attack – 1st Configuration



GTA Online Spy Satellite DLC - Military Spy Satellite Services - Military Platoon Attack Service – Air-to-Land Attack – 1st Configuration Implementation

66



MP
TO



Vehicle Name: Titan

Vehicle Type: Non-Attack Aircraft

Vehicle Purpose: NPCs in aircraft: 6 to 8. NPCs will parachute to player's location to attack.

Vehicle Source: <https://gta.fandom.com/wiki/Titan>



Vehicle Name: Valkyrie

Vehicle Type: Attack Aircraft

Vehicle Purpose: NPCs in aircraft will attack the player using the side-mounted machine gun.

Vehicle Source: <https://gta.fandom.com/wiki/Valkyrie>



Vehicle Name: P-996 Lazer

Vehicle Type: Attack Aircraft

Vehicle Purpose: NPC in aircraft will attack the player using missiles or the jet's machine gun.

Vehicle Source: https://gta.fandom.com/wiki/P-996_LAZER



Vehicle Name: Buzzard Helicopter

Vehicle Type: Non-Attack Aircraft

Vehicle Purpose: Travel to player's location. NPCs in the aircraft will rappel down to the player to attack.

Vehicle Source: https://gta.fandom.com/wiki/Buzzard_Attack_Chopper

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GTA Online Spy Satellite DLC - Military Spy Satellite Services - Military Platoon Attack Service – Air-to-Land Attack – 1st Configuration Implementation

67



MP
TO



Entity Type: Military NPCs

Entity Purpose: NPCs will attack the player until all NPCs are destroyed. Player must destroy all of them or leave the current lobby to exit out or escape from the Military Platoon Attack Service.



Entity Type: Parachuting Military NPCs

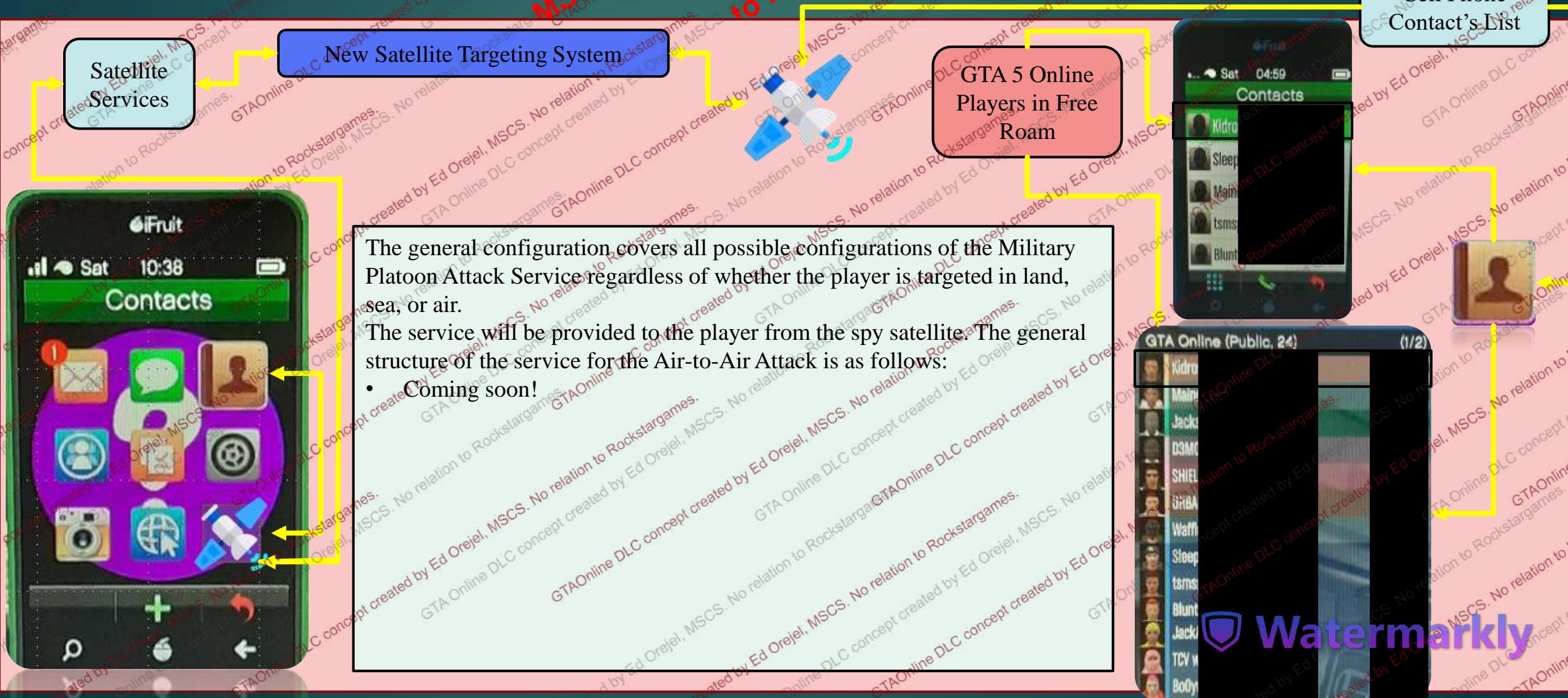
Entity Purpose: NPCs will parachute down to player location to attack the player until all NPCs are destroyed. Player must destroy all NPCs or leave the current lobby to exit out or escape from the Military Platoon Attack Service.

GTA Online Spy Satellite DLC – Military Services - Military Platoon Attack Service – General Configuration – Air-to-Air Attack

68



Cell Phone
Contact's List

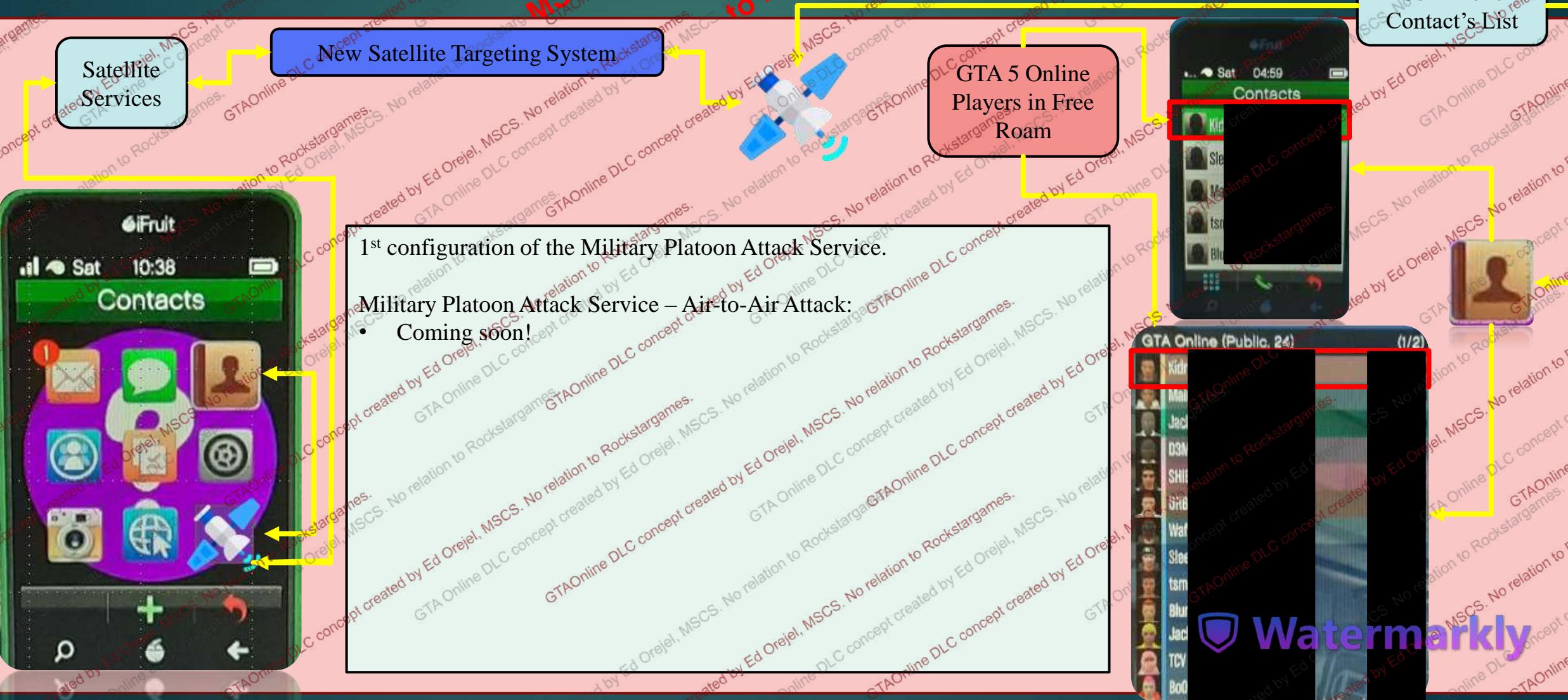




69

GTA Online Spy Satellite DLC – Military Services -Military Platoon Attack Service – Air-to-Air Attack – 1st Configuration

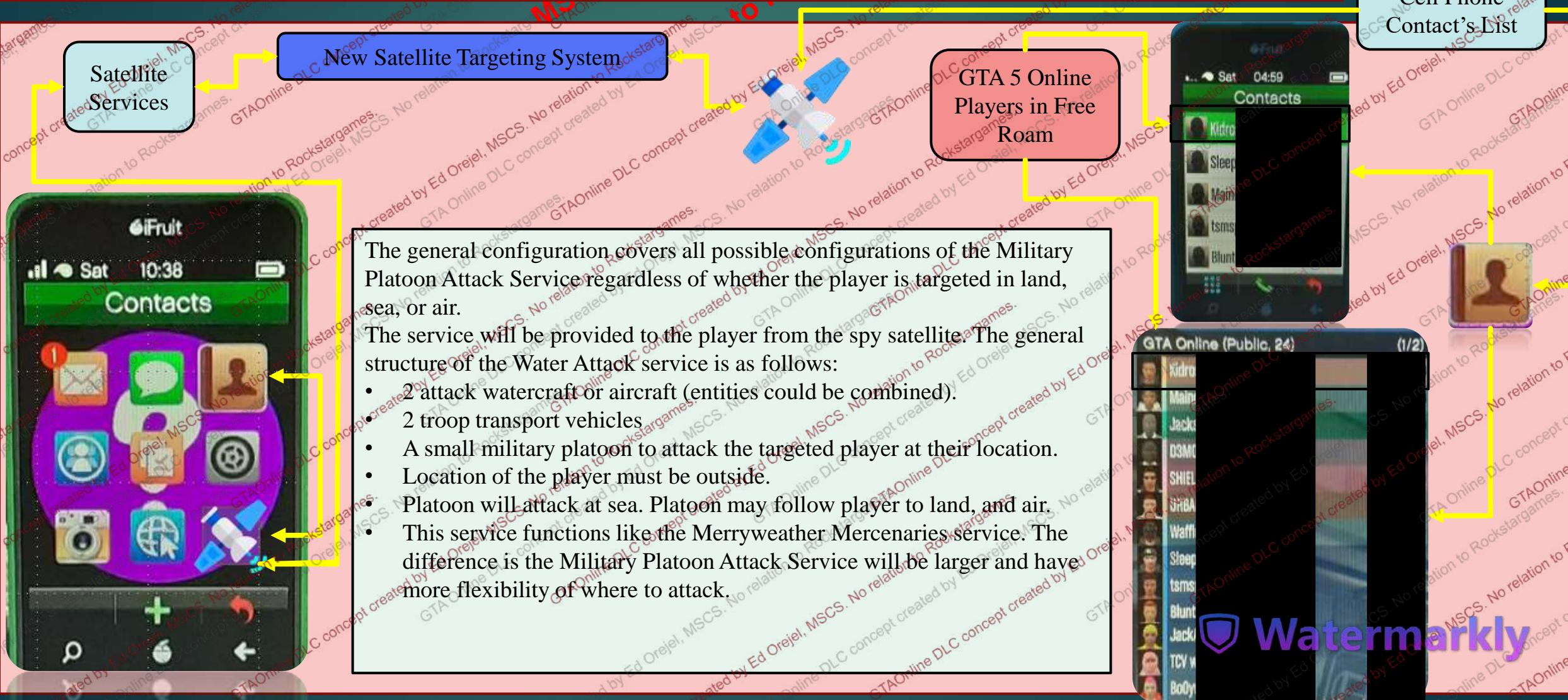
Cell Phone
Contact's List





70

GTA Online Spy Satellite DLC – Military Services -Military Platoon Attack Service – General Configuration – Water Attack



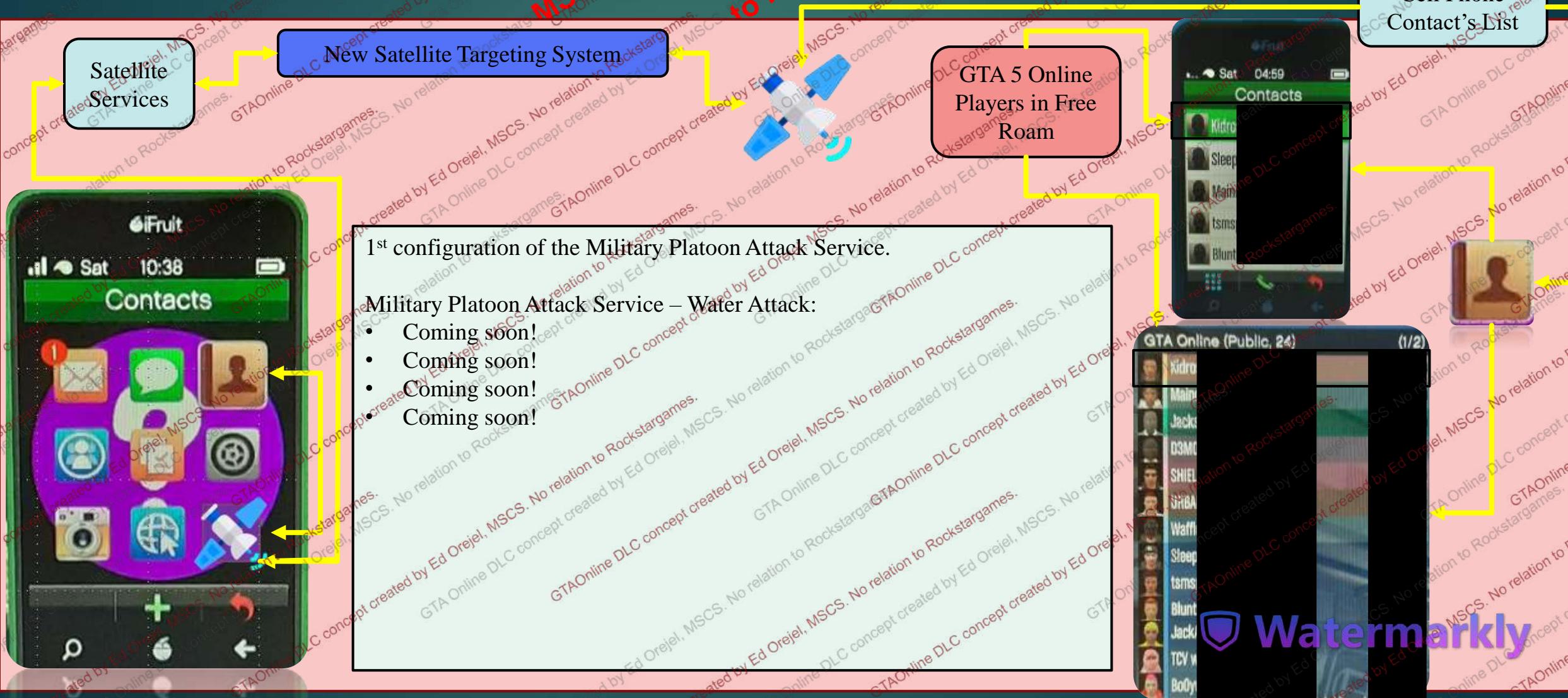
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GTA Online Spy Satellite DLC – Military Services -Military Platoon Attack Service – Water Attack – 1st Configuration

Cell Phone
Contact's List



GTA Online Spy Satellite DLC - Military Spy Satellite Services - Military Platoon Attack Service – Water Attack – 1st Configuration Implementation

72



MP
TO

Vehicle Type: Coming soon!
Source:



Entity Type: Military NPC

The total NPC count that the targeted player must fight off should be a decent number of NPCs, if memory resources, and logic keep it realistic. Using the Military Platoon Attack Service, a small platoon of 10 to 15 military NPCs should attack the player.



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GTA Online Spy Satellite DLC – Military Services – Smart Weapons – Smart Uzis Overview

73

MP
TO



Smart Uzi – featuring remote control ammunition, and ability to stop other smart bullets in midair (stopping a bullet with another bullet just like in the movies)! More information coming soon!

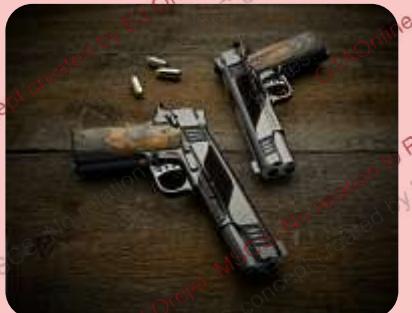


GTA Online Spy Satellite DLC – Military Services – Smart Weapons – Smart Pistols Overview

74



MP
TO



Smart Pistol – featuring remote control ammunition, and ability to stop other smart bullets in midair (stopping a bullet with another bullet just like in the movies)! More information coming soon!

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GTA Online Spy Satellite DLC – Military Services – Smart Weapons – Smart Grenade Launcher Overview

75



MP
TO



Smart Grenade Launcher – featuring remote controlled ammunition, and ability to stop other smart bullets in midair (stopping a bullet with another bullet just like in the movies)! More information coming soon!



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GTA Online Spy Satellite DLC – Military Services – Smart Weapons – Smart Sniper Rifle Overview

76



Smart Sniper Rifle – featuring remote controlled ammunition, and ability to stop other smart bullets in midair (stopping a bullet with another bullet just like in the movies)! More information coming soon!



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GTA Online Spy Satellite DLC – Military Services – Smart Weapons – Aerial Attack Drones Overview

77



Aerial Attack Drone - Coming soon!



Aerial Attack Drone - Coming soon!



Aerial Attack Drone - Coming soon!



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GTA Online Spy Satellite DLC – Shadow Hacker Group – Attack Services – Loyal Wingman Drone – Ruiner 2000 Jet Mode Variant

78



Ruiner 2000 Jet Car – The spy satellite will have a live-feed into a Ruiner 2000 Jet Car variant. The current Ruiner 2000 is the base model of the vehicle. The Jet Mode model will be a jet car that will transform from regular car, to a jet car. The Ruiner 2000 Jet Car will have other benefits. I will list those later.



Super Pursuit Mode from TV Knight Rider – The inspiration for a Jet Mode variant of the Ruiner 2000 comes from the Knight Rider TV show. K.I.T.T. has a Super Pursuit Mode enabled. Instead of using that exact mode, I chose to change it to a Jet Mode. GTA Online can finally have an actual jet car in the game. The Jet Mode variant will also have the ability of being a Loyal Wingman Drone using built-in AI software.



Hydra VTOL Aircraft – The Ruiner 2000 Jet Mode variant will have flying and hovering ability that will be equivalent to, if not greater than the Hydra VTOL aircraft.



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GTA Online Spy Satellite DLC – Shadow Hacker Group – Attack Services – Loyal Wingman Drone Concept – Infographic

79



Boeing teams with Australia on fighter drone

Boeing is partnering with Australia's military to develop a stealthy combat drone capable of flying as a "loyal wingman" alongside manned aircraft, offering fighter jet-like performance at a much lower cost

BOEING AIRPOWER TEAMING SYSTEM
Due to make first flight in 2020

Tail: Outward-canted twin fins

Length: 11.7m

Powerplant: Light commercial jet engine, likely recessed to reduce infrared signature

Fuselage: Possible stealth shaping

Payload bay: Sensors provide intelligence-gathering and electronic warfare capabilities. Could also accommodate weapons

M
TO

"LOYAL WINGMAN" CONCEPT
Drone's software allows it to fly independently or in support of manned aircraft while maintaining safe distance between other aircraft



Control via data link from nearby manned aircraft or ground station

If system enters service with Royal Australian Air Force, drones would be used to shield manned aircraft such as F-35 Lightning II fighter jets and E-7 Wedgetail early warning and control planes

Sources: Boeing, Flight Global, IHS Jane's, Popular Mechanics

© GRAPHIC NEWS



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GTA Online Spy Satellite DLC – Shadow Hacker Group – Attack Services – Ruiner 2000 Jet Mode Vehicle – Sample Storage

80



MP
TO



Ruiner 2000 Jet Car – The Jet Mode variant of the Ruiner 2000 can be used in a robust way, to engage with other GTA Online services, for maximum player benefit. The Ruiner 2000 Jet Mode variant is not enabled for purchase, if the player does not have the original Ruiner 2000 base model unlocked. In progress.



Mammoth Avenger – The Mammoth Avenger will be used to upgrade the Ruiner 2000 base model to the Jet Mode variant. It is stored in a Facility. I assume the Ruiner 2000 Jet Mode variant will also be stored in a Facility. The Ruiner 2000 Jet Mode variant will be upgraded with performance features inside the Mammoth Avenger. These features will be related to the flight ability while engaged in Jet Mode and vehicle mode.



Aircraft Hangars – The AI-software to enable the Loyal Wingman Service will be installed at an aircraft hangar. Only this service is installed here. To access the AI-software for the Ruiner 2000 Jet Mode installation, a player must bring the Avenger into the hangar to install it. The AI-software for the Loyal Wingman Drone service is not installed any other way nor in any other location. I will include more information later.

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GTA Online Spy Satellite DLC – Shadow Hacker Group – Hacking Services – Mobile Phone Hacking Overview

MP
TO



Mobile Phone Hacking Services - more information coming soon!

GTA Online Spy Satellite DLC – Shadow Hacker Group – Attack Services – Attack Drone Swarm Overview

82



Attack Drone Swarm – more information coming soon!

GTA Online Spy Satellite DLC – Shadow Hacker Group – Hacking Services – Launching Attack Drone Swarm – 1st Method of Firing Attack Drones – Shoulder-Fired Bazooka

83



Shoulder-Fired Drone Swarm – more information coming soon!

MP
TO

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GTA Online Spy Satellite DLC – Shadow Hacker Group – Hacking Services – Launching Attack Drone Swarm – 2nd Method of Firing Attack Drones – Vehicle Method – Attack Drone Truck

84



MP
TO

Drone Swarm Launcher Vehicle. An AI-powered vehicle with an NPC driver, drives toward target player, and launches the drone swarm. I think this method would work well.

The vehicle would launch a barrage of drones to attack a target with weapons or small missiles. Alternatively, the barrage of attack drones could also jam the player's communications, hack the player's mobile device, or attach to the player's vehicle to hack the vehicle.

Using this method, the barrage of attack drones would also function as vehicle hacking drones.

It is assumed that all of the functionality for this vehicle to operate seamlessly in the GTA Online world, will be created by the software engineers and developers at Rockstar Games.

Source for concept:

https://www.youtube.com/watch?v=QamGaDNCzJU&t=15s&ab_channel=shotsavoir



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GTA Online Spy Satellite DLC – Shadow Hacker Group – Hacking Services – Drone Zapper Weapon

85



MP
TO



Drone zapper weapon! Destroys all attack drones and aerial drones! This weapon will be the only weapon that can destroy any of the drones that will be available through the spy satellite DLC. Further, this weapon can also destroy drones that were enabled in previous GTA Online DLCs.

More information coming soon!



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GTA Online Spy Satellite DLC – Shadow Hacker Group – Hacking Services – Drone Remote Vehicle Hacking Overview

86



Vehicle Hacking Drone – more information coming soon!

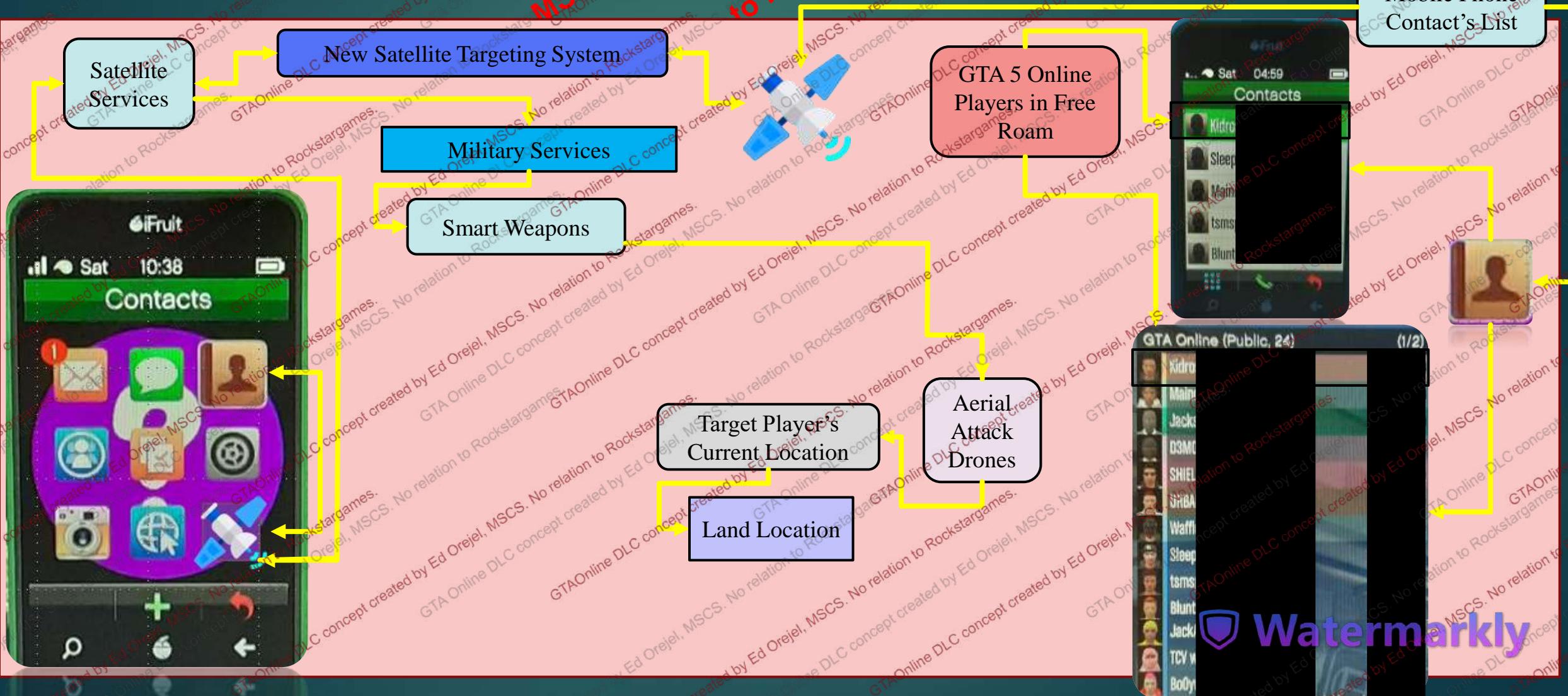
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GTA Online Spy Satellite DLC – Military Services – Smart Weapons – Aerial Attack Drones

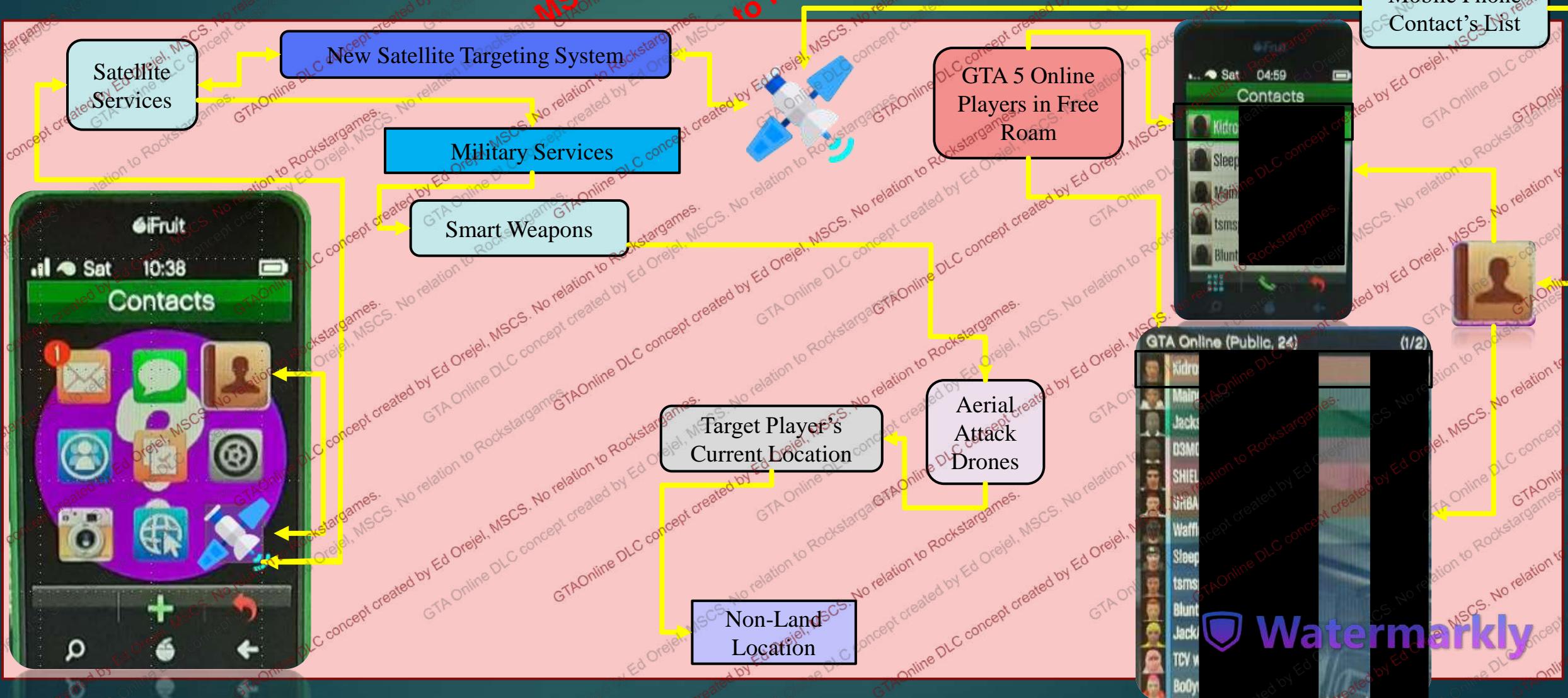
Mobile Phone
Contact's List



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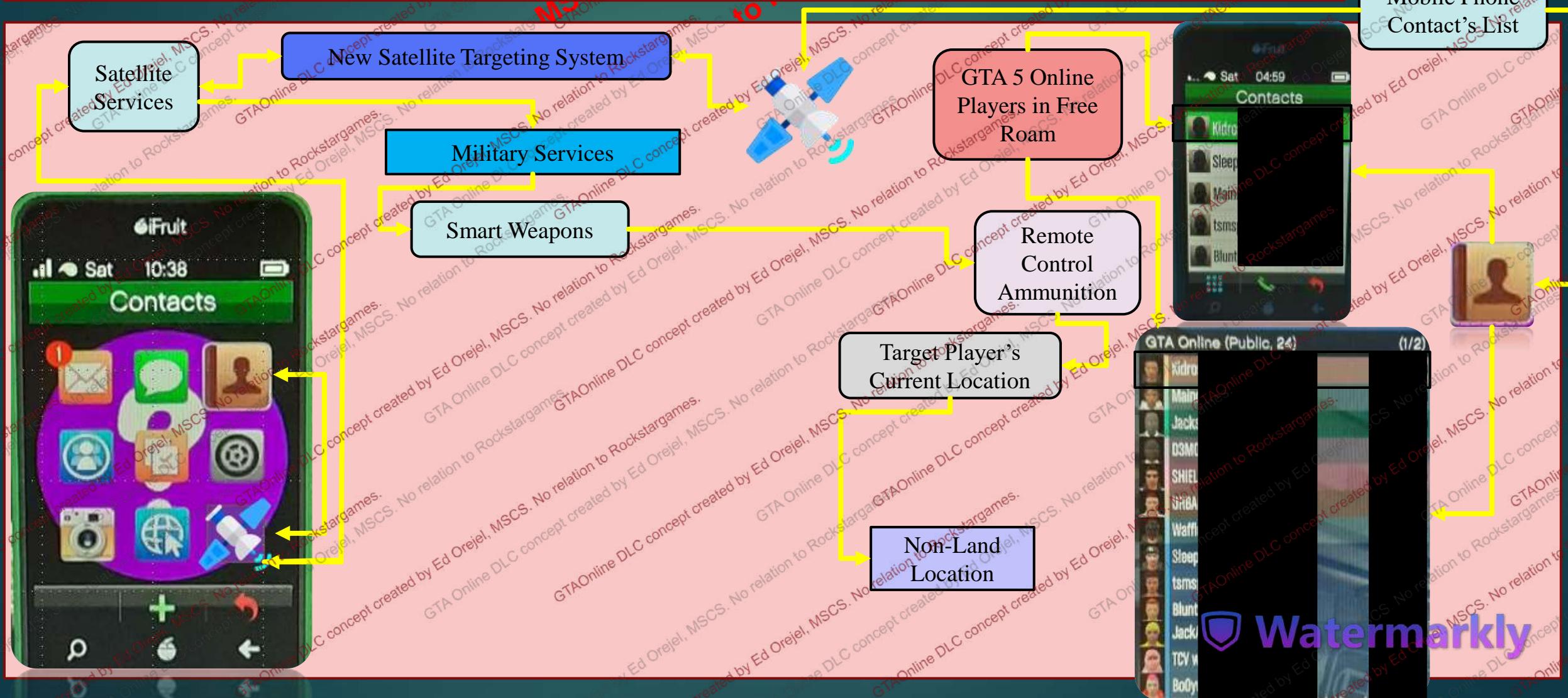
GTA Online Spy Satellite DLC – Military Services – Smart Weapons – Aerial Attack Drones





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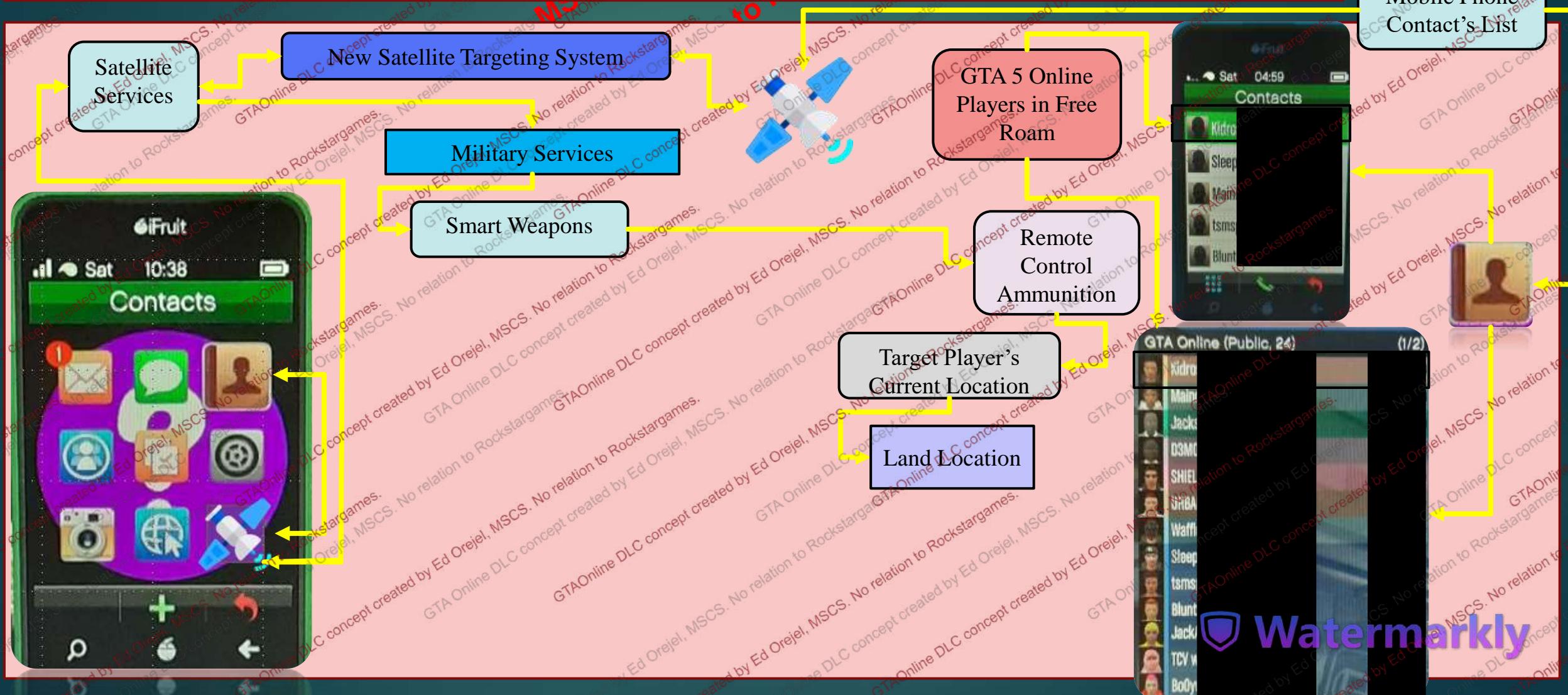
GTA Online Spy Satellite DLC – Military Services – Smart Weapons – Remote Control Ammunition





90

GTA Online Spy Satellite DLC – Military Services – Smart Weapons – Remote Control Ammunition

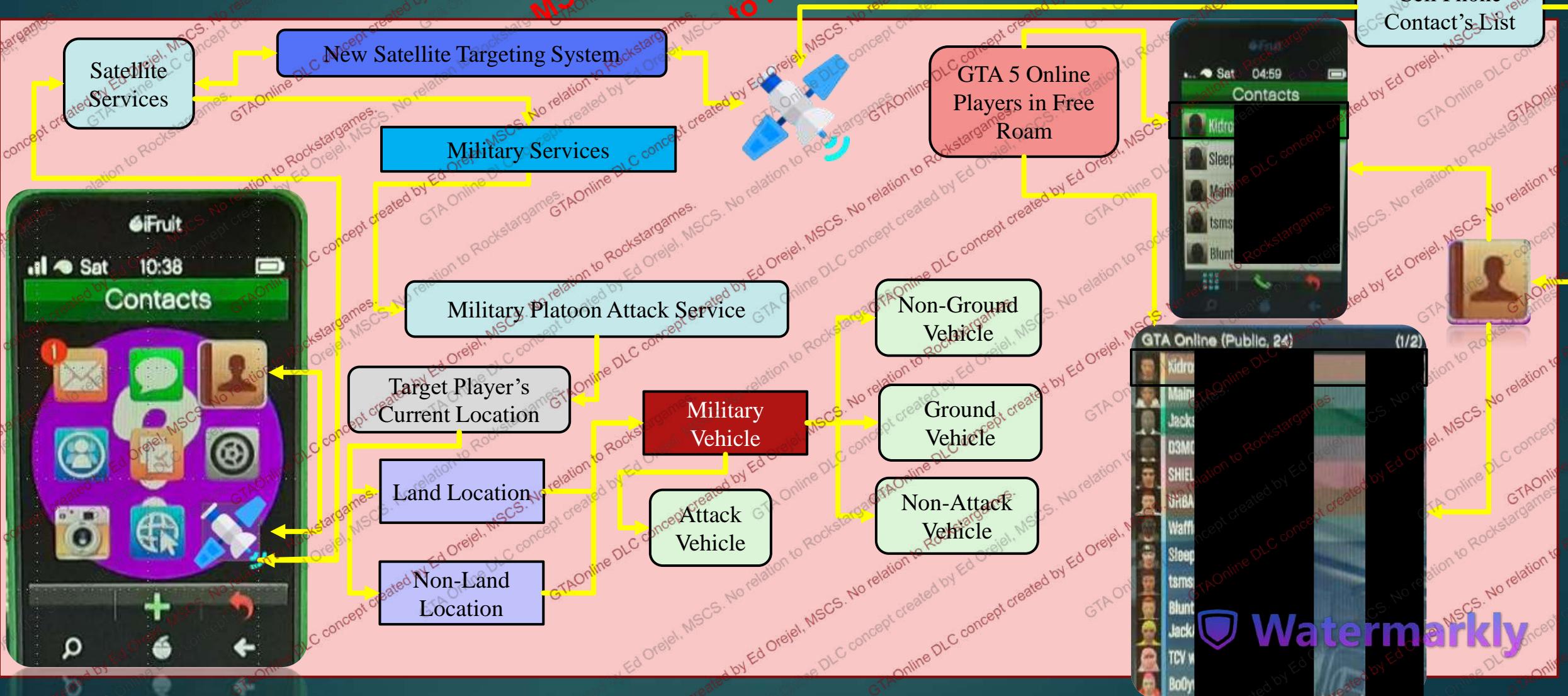


GTA Online Spy Satellite DLC – Military Services – Military Platoon Attack Service – Military Vehicle

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Cell Phone
Contact's List

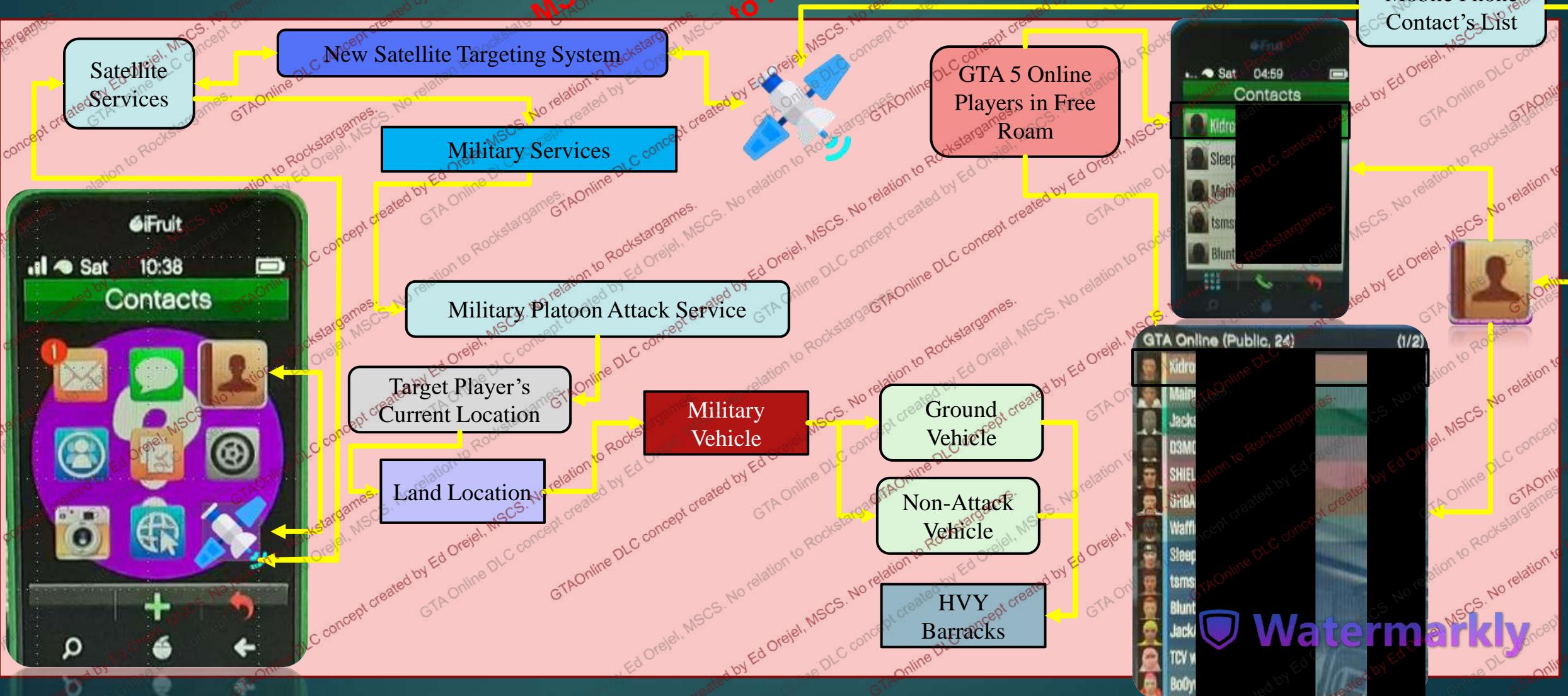


GTA Online Spy Satellite DLC – Military Services – Military Platoon Attack Service – Military Vehicle

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Mobile Phone
Contact's List



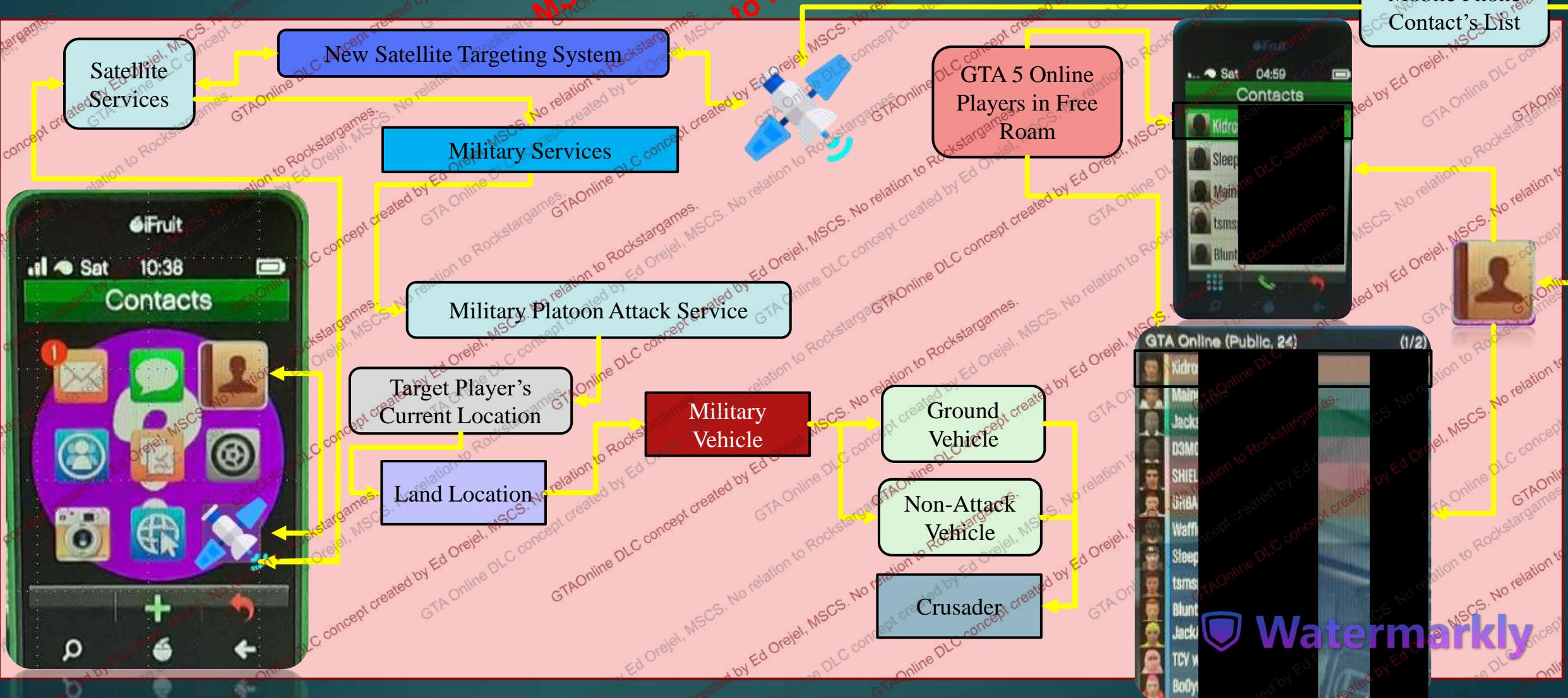
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GTA Online Spy Satellite DLC – Military Services – Military Platoon Attack Service – Military Vehicle

93



Mobile Phone
Contact's List

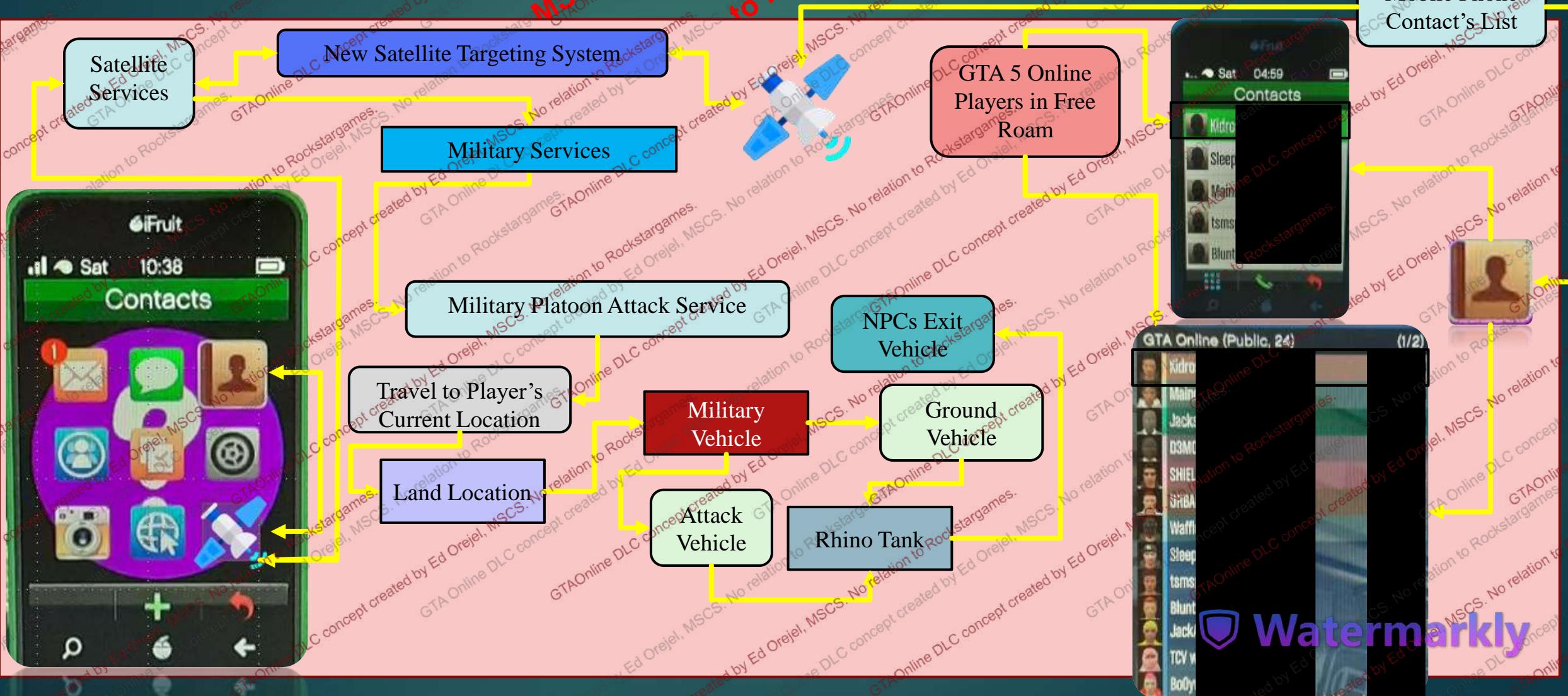


GTA Online Spy Satellite DLC – Military Services – Military Platoon Attack Service – Military Vehicle

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Mobile Phone
Contact's List

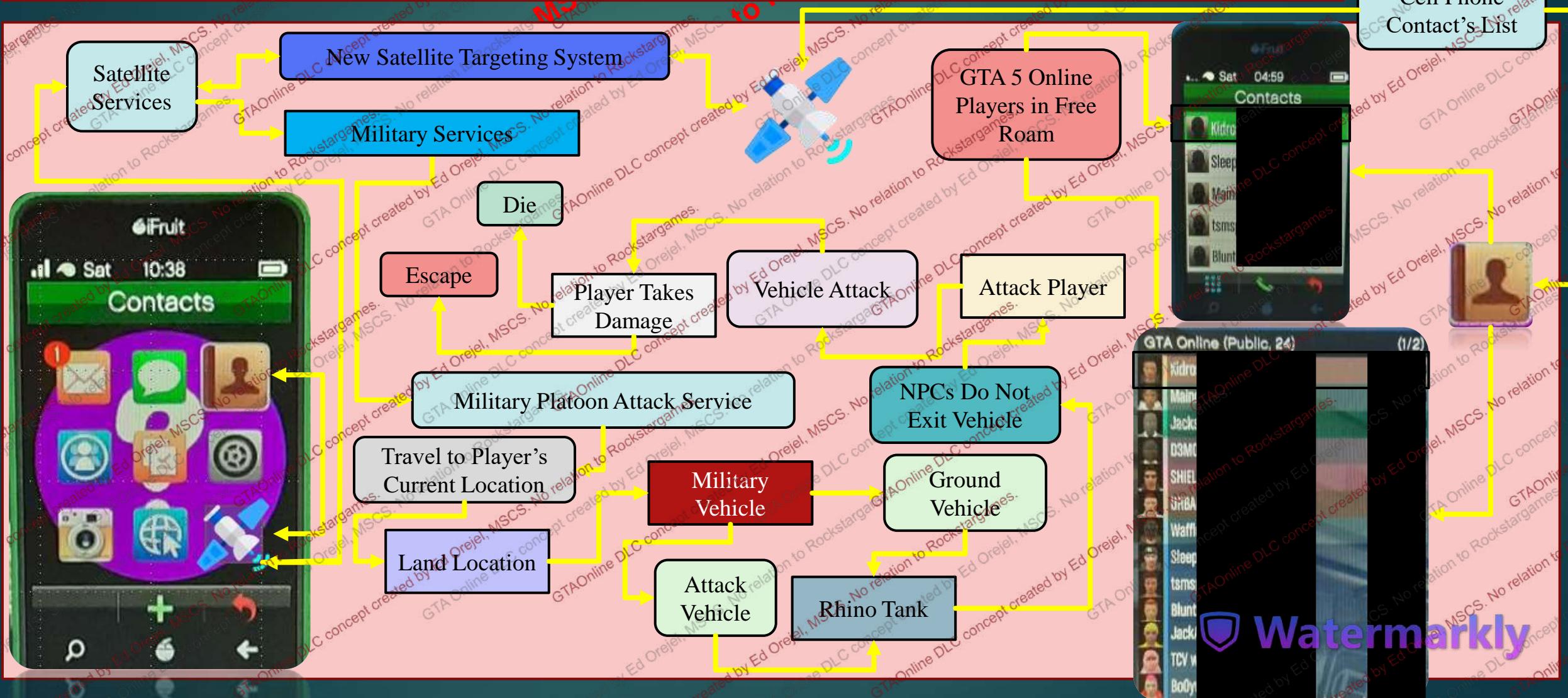


Watermarkly



95

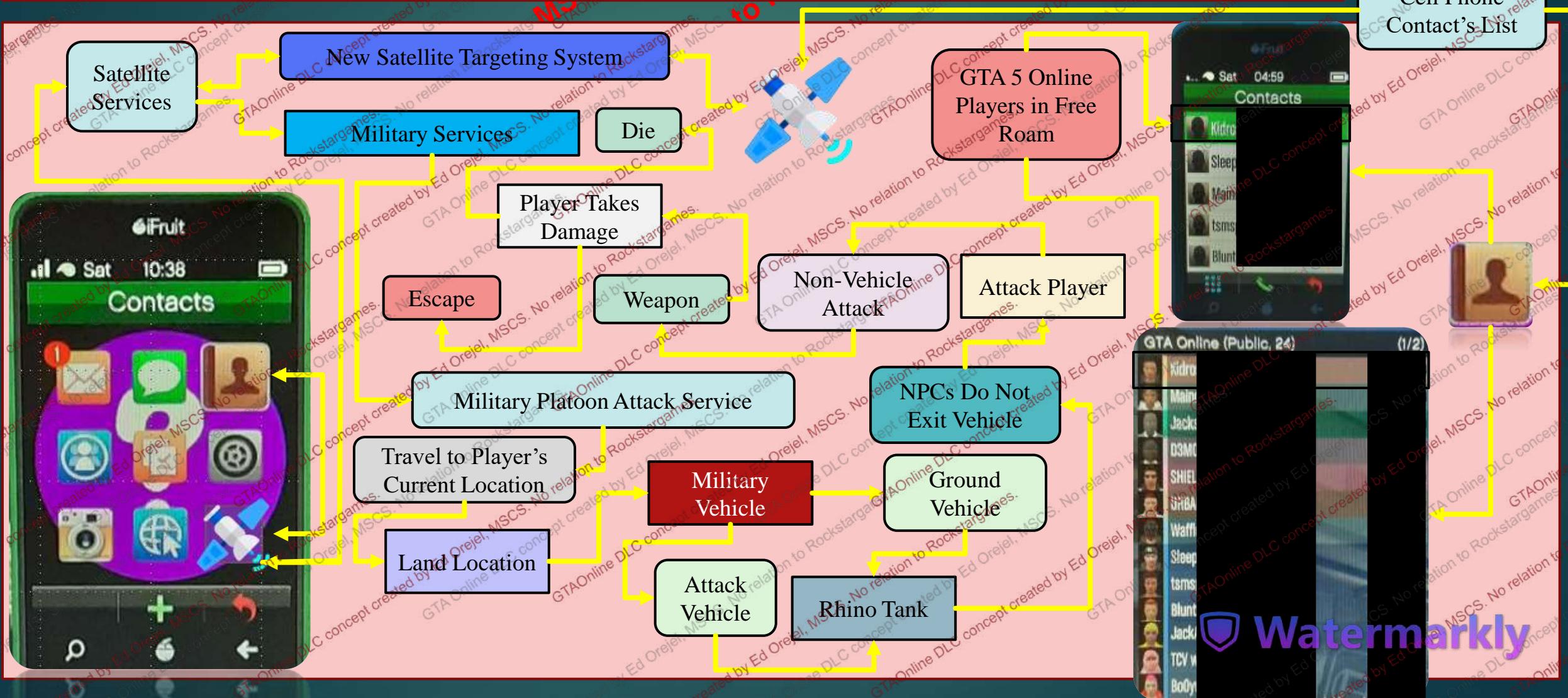
GTA Online Spy Satellite DLC – Military Services – Military Platoon Attack Service – Military Vehicle – Ground Vehicle – Attack Vehicle – Rhino Tank





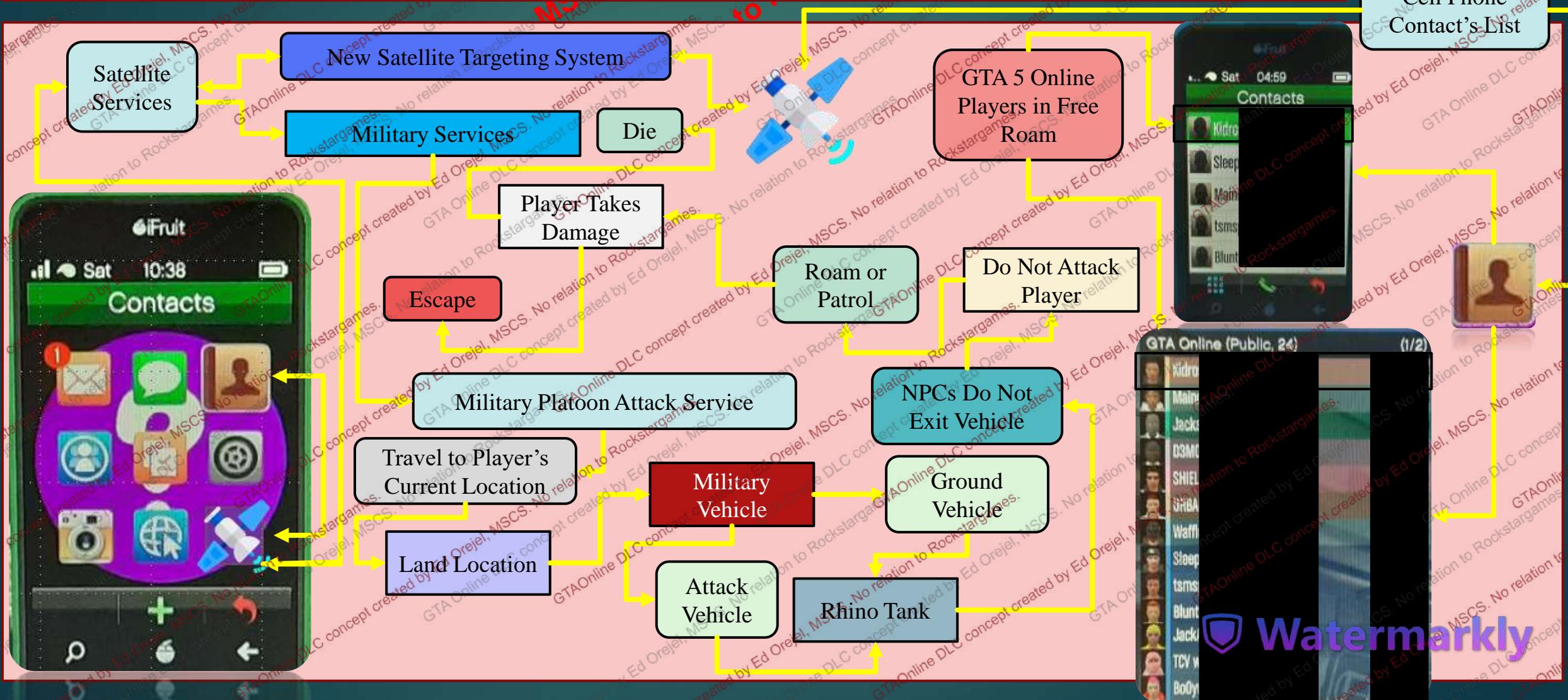
96

GTA Online Spy Satellite DLC – Military Services – Military Platoon Attack Service – Military Vehicle – Ground Vehicle – Attack Vehicle – Rhino Tank





GTA Online Spy Satellite DLC – Military Services – Military Platoon Attack Service – Military Vehicle

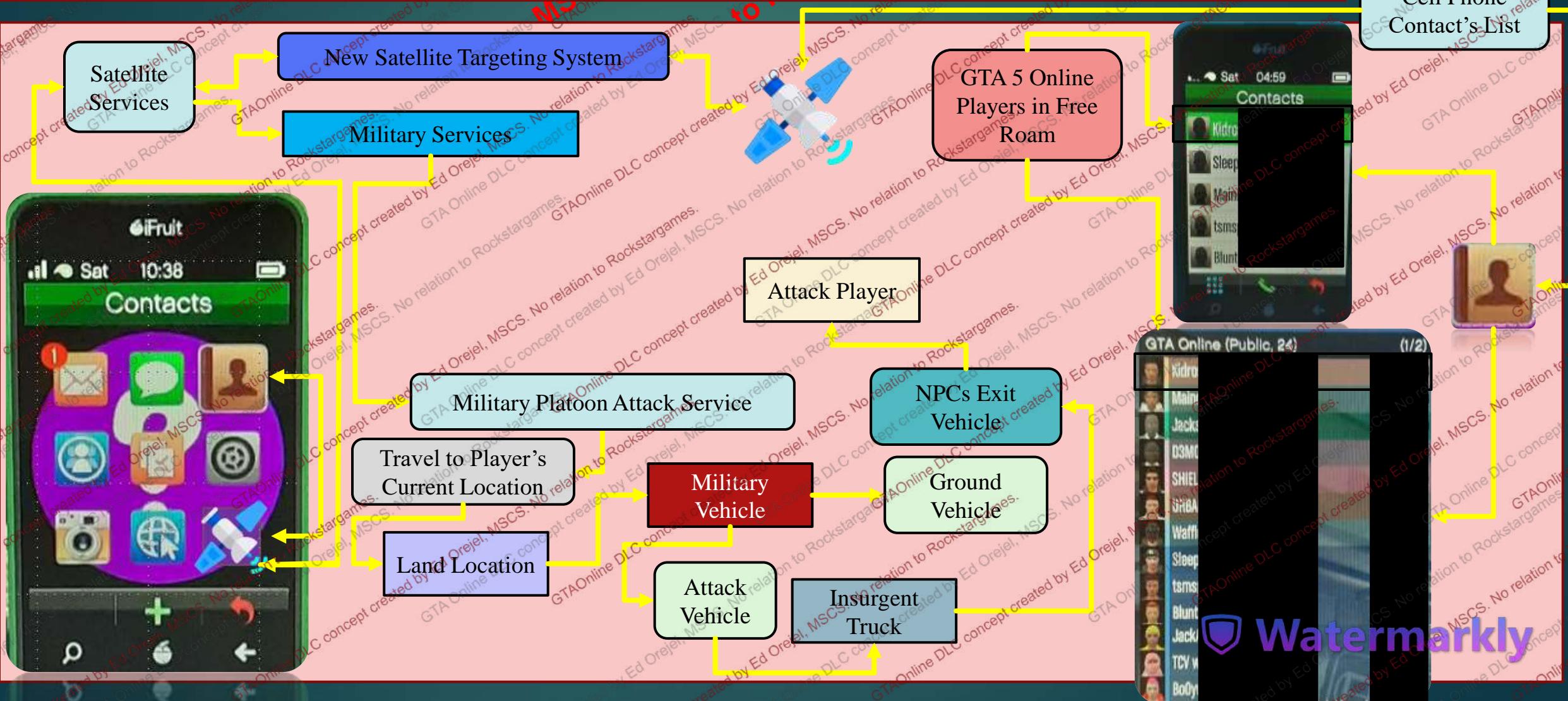


GTA Online Spy Satellite DLC – Military Services – Military Platoon Attack Service – Military Vehicle

98



Cell Phone
Contact's List



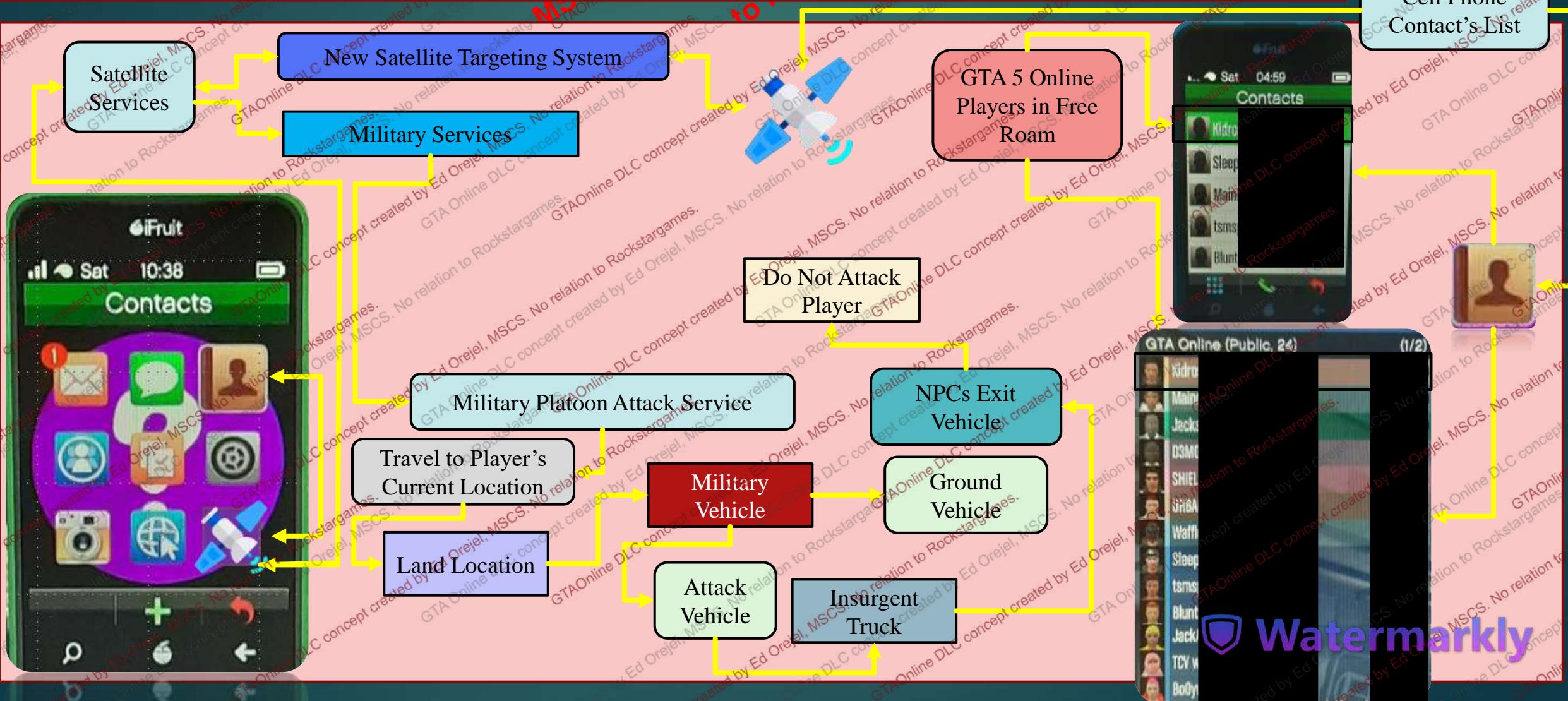
Watermarkly

GTA Online Spy Satellite DLC – Military Services – Military Platoon Attack Service – Military Vehicle

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Cell Phone
Contact's List



GTA Online Spy Satellite DLC – Military Services – Military Platoon Attack Service – Military Vehicle

100



Cell Phone
Contact's List

