

# FOG COMPUTING SDK

UPGRADE YOUR PRODUCT VALUE PROPOSITION BY ENHANCING YOUR USERS' ONLINE EXPERIENCE, MAKING IT MORE SEAMLESS AND ENJOYABLE, ALLOWING USERS TO CHAT, SHARE AND STREAM DATA EVEN WHEN THEY ARE COMPLETELY OFFLINE, AND PROVIDE BOOSTED BONDED CONNECTIVITY WHEN CONNECTED TO THE INTERNET.

## WHAT'S SMARTIPLY FOG COMPUTING SDK?

Smartply Fog Computing SDK is a software bundle that enables various collaboration activities between devices in a Fog / Mesh network. A multitude of innovative apps can be built that were never imagined before to support use cases that are either completely Cloud-less, or Fog-based + Cloud-dependent across various domains.

## KEY PLATFORM CAPABILITIES



### FOG NETWORKING

The Smartply Fog Computing SDK provides the capability for the devices to discover and network with each other directly in a local ad-hoc network, peer-to-peer or in a group, so that the devices can interact completely cloud-less. And, they can connect to the cloud when needed, with the added capability of bonding multiple WiFi and cellular channels.



### SECURITY

All data transactions between devices are encrypted. Comprehensive authentication and authorization management ensures your users privacy and data security in all layers. And connectivity through the cloud is accomplished through VPN with added multi-path transit.



### RESOURCE SHARING

The SDK helps the devices work together like one single device. Combine the resources and get aggregated capacity. Sharing bandwidth gives you a bigger, stronger data pipe. You can also share computing and storage to other devices and enjoy the combined power.



### P2P & GROUP COMMUNICATION

The SDK supports peer-to-peer and group communications in the fog network. The devices can send and receive messages / notifications, share files, function as the platform for multi-player game or quizzes, and even live stream media data to other devices.



### COLLABORATION

With its well designed fog collaboration mechanism, the SDK enables your device to monitor activities happening in other devices. It can also control other nearby devices when needed, or get notified when a pre-set event occurs.



### BANDWIDTH BONDING & BOOSTING

The Smartply Fog Computing SDK allows mesh network participants to connect to the cloud from one device or all devices simultaneously by combining multiple cellular links, and in addition, adding available WiFi connectivity to the bonded shared channel.

## WHO IS THIS FOR?

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### APP DEVELOPERS

With Smartipty SDK, developers can easily integrate Smartipty capabilities into their own apps. For example, gaming companies can leverage the underlying fog network technology to enable offline multiplayer games between users within close proximity.

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### SYSTEM INTEGRATORS

Develop unique applications for your target industries, for example, in the cruise industry, guests can communicate with each other even when they are completely offline. And they can share or stream media with others in a fog network.

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### CONTENT PROVIDERS

Content providers can stream / broadcast media better, and provide a compelling user experience with the reliable, boosted, and secure connectivity Smartipty SDK provides. Combine all the available connections together for superior 4K content streaming in bandwidth challenged geographies.

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### TELECOM OPERATORS

Telecom operators can deeply integrate Smartipty SDK with their flagship smartphones and offer users a better wireless user experience. The fog network technology helps optimize network usage and enables new online & offline use cases.

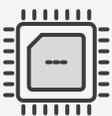
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### GOVERNMENT

Ideal for incident response, tactical communications, and natural disaster relief. Smartipty SDK helps provide reliable internet connectivity by combining all available connections together. And enables broadcasting and direct communication when offline.

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### DEVICE MANUFACTURERS

Device Manufacturers can integrate Smartipty SDK capabilities into their own products to provide differentiation. Innovative networking and collaboration features create a network effect, enhance customer experience, and drive loyalty.

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