Client Host Implementation Reference Guide

This document is designed to help you implement logic to properly pass on client host from your application to the gateway. This is a very simple and quick change, and we encourage you to implement it in your application for the safety of your merchants.

X-Forwarded-For (some languages like php can use prefix HTTP to distinguish HTTP headers from other server variables: HTTP_X_FORWARDED_FOR) HTTP header field is a de facto standard for identifying the originating IP address of a client, connecting to a web server through an HTTP proxy or load balancer. A standard has been proposed at the Internet Engineering Task Force (IETF) for standardizing the Forwarded HTTP header, but some proxies and cluster systems can also use HTTP_CLIENT_IP or Proxy-Client-IP (Wl-Proxy-Client-IP for Weblogic) header for these purposes.

The following pages present examples in the most common programming languages.

```
================================Java==================================

    String ip = request.getHeader("X-Forwarded-For");

    if (ip == null || ip.length() == 0 || "unknown".equalsIgnoreCase(ip)) {

        ip = request.getHeader("Proxy-Client-IP");

    }

    if (ip == null || ip.length() == 0 || "unknown".equalsIgnoreCase(ip)) {

        ip = request.getHeader("WL-Proxy-Client-IP");

    }

    if (ip == null || ip.length() == 0 || "unknown".equalsIgnoreCase(ip)) {

        ip = request.getHeader("HTTP_CLIENT_IP");

    }

    if (ip == null || ip.length() == 0 || "unknown".equalsIgnoreCase(ip)) {

        ip = request.getHeader("HTTP_X_FORWARDED_FOR");

    }

    if (ip == null || ip.length() == 0 || "unknown".equalsIgnoreCase(ip)) {

        ip = request.getRemoteAddr();

    }


    return ip;
```

```
===============================PHP====================================

        $ip = $_SERVER['X-Forwarded-For'];

        if (is_null($ip) || 'unknown' == strtolower($ip)) {

                $ip = $_SERVER['Proxy-Client-IP'];

        }

        if (is_null($ip) || 'unknown' == strtolower($ip)) {

                $ip = $_SERVER['WL-Proxy-Client-IP'];

        }

        if (is_null($ip) || 'unknown' == strtolower($ip)) {

                $ip = $_SERVER['HTTP_CLIENT_IP'];

        }

        if (is_null($ip) || 'unknown' == strtolower($ip)) {

                $ip = $_SERVER['HTTP_X_FORWARDED_FOR'];

        }

        if (is_null($ip) || 'unknown' == strtolower($ip)) {

                $ip = $_SERVER['REMOTE_ADDR'];

        }

        return $ip;
```

```
==============================.Net==================================

        HttpRequest currentRequest = HttpContext.Current.Request;

  string ip = currentRequest.ServerVariables["X-Forwarded-For"];

  if (ip == null || ip.ToLower() == "unknown"){

    ip = currentRequest.ServerVariables["Proxy-Client-IP"];

        }

        if (ip == null || ip.ToLower() == "unknown"){

    ip = currentRequest.ServerVariables["WL-Proxy-Client-IP"];

        }

        if (ip == null || ip.ToLower() == "unknown"){

    ip = currentRequest.ServerVariables["HTTP_CLIENT_IP"];

        }

        if (ip == null || ip.ToLower() == "unknown"){

    ip = currentRequest.ServerVariables["HTTP_X_FORWARDED_FOR"];

        }

        if (ip == null || ip.ToLower() == "unknown"){

    ip = currentRequest.ServerVariables["REMOTE_ADDR"];

        }

  return ip;
```