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KCOM Group PLC Wholesale Web Application Service Provider Interface Service Description and Technical Characteristics

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1. Introduction

This document specifies the technical characteristics and service description of the Wholesale Web Application Service Provider Interface operated by KCOM Group PLC that enables Communications Providers (CPs) access to and management of service related attributes. The status of this document will be reviewed in the future, taking into account early operations of the service and industry developments such as specifications developed through the Network Interface Co-ordination Committee (NICC).

Changes that affect the correct working of the service will be published by KCOM Group PLC in documents made available from the address below and specifically identified to service users. If the changes impact on this document then it will be updated.

Enquiries relating to the technical content of this document and the availability of other publications should be directed to:

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2. Outline Service Description

This document describes the functional information exchange mechanism, protocol and data parameters of the service and applicable KCOM Group PLC services. This is to enable a CP to establish a mediated electronic connection to the relevant KCOM Group PLC application platform(s) and interact with individual service parameters on behalf of their own service End Users.

The list of KCOM Group PLC services to which this document is applicable is shown in the Table 1, below.

Service	Notes	Applicable Annex
IPLine Internet Access Service	As described in KCOM Group PLC CIP_026[1]	Annex A

Table 1. Services List

The service is web based and consists of a service specific log on procedure through a common access platform where CP identification and authentication is performed. Successful authentication results in mediated access to authorised services. CP applications for the exploitation of this service are not the responsibility of KCOM Group PLC.

CPs will be provided details of the Web Service URL and a test harness URL to enable pre-service functional testing of CP application(s).

3. Web Service for Identification and Authentication

The authentication implementation is a Basic HTTP Authentication scheme as per RFC 2617[2]. KCOM Group PLC will provide Service Provider Identifier and authentication credentials to the CP during the initial provisioning process.

4. Service Specific Attributes

Specific KCOM Group PLC wholesale service aspects are provided on a service by service basis in Annex to this document. See Appendix A.

5. Glossary and Abbreviations

CP	Communications Provider. (Providers of Electronic Communication Services)
HTTP	Hypertext Transfer Protocol
RFC	Request for Comment – Internet Engineering Task Force Technical publications
URL	Uniform Resource Locator
WSDL	Web Services Description Language

6. References

Reference	Source	Title/Notes	Date
[1]	KCOM Group PLC	CIP_026 IPLine Internet Access Service Description and Technical Characteristic Issue2.0. Available from : http://www.kcomplc.com/regulatory/kcom-wholesale/service-information/technical-interface-information/	July 2017
[2]	Internet Engineering Task Force	Available at: http://www.rfc-editor.org/	
International Telecommunications Union	ITU-Telecommunications Standards	Available at: http://www.itu.int/en/Pages/default.aspx	

7. History

Date	Issue	Comments	Author
Aug 06	1.0	Initial version	M. D. Crowther
August 2007	1.1	Company name change to KCOM Group PLC and associated changes	M. D. Crowther
April 2016	1.2	Change of company name from KC to KCOM and document formatting changes	Amanda Woodard
July 2017	1.3	Format and content updated.	Ian Peet

8. Appendix A

IPLine Internet Access - Operational Parameters

Introduction

This document describes a Web Service interface for managing Subscribers and Quotas on the IPLine Internet Access. The Wholesale Web Application Service Provider Interface provides the SP with the ability to set the End User ADSL parameters as detailed below. This is achieved by mediated communication with the Subscriber Management and traffic management engines that provide the service.

A WSDL file for this interface specification will be provided on request to compliment this specification.

Web Service Methods

All of the methods exposed by the Web Service have a number common parameters.

Common Parameters

Parameter	Required	Description	Type	Validation
conversationId	Y	Reserved for future use. Intended for functions that require state to be maintained across multiple requests.	any	Any value passed will be discarded, although a value needs to be supplied.
version	Y	The version of the API to call	int	The API is currently at version 1
authLogin	Y	The authentication login for the request.	string	Used to enforce security privileges and rights for this API.
authPass	Y	The password required for the authentication login.	string	
spCode	Y	Identifies the Service Provider within which the API will operate.	string	

Detailed Parameters

addSubscriber

Adds a subscriber to the Subscriber Management System

Supported API

Version 1

Input

Parameter	Required	Description	Type	Validation
subscriberName	Y	The login name of the subscriber to add	string (255)	Should be in the format of <user>@<realm> Note: case-sensitive
profileId	Y	The initial profile to apply to the subscriber	int	
profileGroupId	Y	The profile group to apply to the subscriber	int	

Output – this method returns a “structure” (apachesoap:Map)

Parameter	Required	Description	Type	Validation
statusCode	-	A numeric value indicating the status of the request	int	1 for Success otherwise the error code. A value of 0 indicates that the request did not execute at all.
statusMessage	-	A text representation of statusCode	string	

deleteSubscriber

Deletes a subscriber from the Subscriber Management System

Supported API

Version 1

Input

Parameter	Required	Description	Type	Validation
subscriberName	Y	The login name of the subscriber to delete	string (255)	Should be in the format of <user>@<realm> Note: case-sensitive

Output – this method returns a “structure” (apachesoap:Map)

Parameter	Required	Description	Type	Validation
statusCode	-	A numeric value indicating the status of the request	int	1 for Success otherwise the error code. A value of 0 indicates that the request did not execute at all.
statusMessage	-	A text representation of statusCode	string	

getSubscriber Supported API Version 1

Retrieves information about a subscriber from the Subscriber Management System

Input

Parameter	Required	Description	Type	Validation
subscriberName	Y	The login name of the subscriber to get	string (255)	Should be in the format of <user>@<realm> Note: case-sensitive

Output – this method returns a “structure” (apachesoap:Map)

Parameter	Required	Description	Type	Validation
statusCode	-	A numeric value indicating the status of the request	int	1 for Success otherwise the error code. A value of 0 indicates that the request did not execute at all.
statusMessage	-	A text representation of statusCode	string	
subscriberName	-	The name of the subscriber retrieved	string	
currentProfileId	-	The current profile assigned to this subscriber	int	
currentQuota	-	Status of the subscribers quota	array	Each array element includes the quota description, the quota type (either volume or session), the initial limit and the current value
isBreached	-	Boolean flag indicating whether the subscriber has breached 1 or more quotas	boolean	true/false

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getCurrentProfile

Supported API

Version 1

Gets the profile currently assigned to a subscriber

Input

Parameter	Required	Description	Type	Validation
subscriberName	Y	The login name of the subscriber to delete	string (255)	Should be in the format of <user>@<realm> Note: case-sensitive

Output – this method returns a “structure” (apachesoap:Map)

Parameter	Required	Description	Type	Validation
statusCode	-	A numeric value indicating the status of the request	int	1 for Success otherwise the error code. A value of 0 indicates that the request did not execute at all.
statusMessage	-	A text representation of statusCode	string	
currentProfileId	-	The current profile assigned to this subscriber	int	

getCurrentQuota Supported API Version 1

Gets the quota status for a subscriber

Input

Parameter	Required	Description	Type	Validation
subscriberName	Y	The login name of the subscriber to delete	string (255)	Should be in the format of <user>@<realm> Note: case-sensitive

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Output – this method returns a “structure” (apachesoap:Map)

Parameter	Required	Description	Type	Validation
statusCode	-	A numeric value indicating the status of the request	int	1 for Success otherwise the error code. A value of 0 indicates that the request did not execute at all.
statusMessage	-	A text representation of statusCode	string	
currentQuota	-	Status of the subscribers quota	array	The array has 16 elements. Each array element includes the quota description, the quota type (either volume or session), the initial limit and the current value.

getAvailableProfiles

Supported API

Version 1

Gets available profiles for a subscriber

Input

Parameter	Required	Description	Type	Validation
subscriberName	Y	The login name of the subscriber to delete	string (255)	Should be in the format of <user>@<realm> Note: case-sensitive

Output – this method returns a “structure” (apachesoap:Map)

Parameter	Required	Description	Type	Validation
statusCode	-	A numeric value indicating the status of the request	int	1 for Success otherwise the error code. A value of 0 indicates that the request did not execute at all.
statusMessage	-	A text representation of statusCode	string	
availableProfiles	-	An array of profiles available for this subscriber	array	

setProfile

Assign a profile to a subscriber

Supported API

Version 1

Input

Parameter	Required	Description	Type	Validation
subscriberName	Y	The login name of the subscriber to delete	string (255)	Should be in the format of <user>@<realm> Note: case-sensitive
profileId	Y	The profile to be assigned to this subscriber	int	

Output – this method returns a “structure” (apachesoap:Map)

Parameter	Required	Description	Type	Validation
statusCode	-	A numeric value indicating the status of the request	int	1 for Success otherwise the error code. A value of 0 indicates that the request did not execute at all.
statusMessage	-	A text representation of statusCode	string	

End of Annex