Self Service AdTech Integration

Requirement Specifications

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Nexelus USA  
New York, NEW YORK (NY)  
646-558-1950 ext.128

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## Document Information

The following table shows the details for document creation, review, approval, and effective date.

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| Author(s): | Tauseef Shahzad |
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| Disclaimer: | This document contains confidential information. Do not distribute this document without prior approval from Nexelus. |

## Revision History

The following table is used for revision details of this document.

| **Author(s)** | **Date** | **Version** | **Description of Change** |
| --- | --- | --- | --- |
| Tauseef Shahzad | July 30, 2025 | 0.1 | Initial Draft |

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## Scope

Nexelus has implemented an extensible, pluggable integration system for AdTech platforms. Google Ads, Google DV360, Microsoft Ads, Yahoo, TradeDesk, LinkedIn and some AdTech platforms have been integrated with Nexelus using this architecture.

The mechanism for configuration and enabling these AdTech Plugins is manual and requires continuous back and forth communication with clients. It also requires direct Database access to execute SQL scripts for plugin integration and to enable these plugins for specific clients. This process not only delays the integration process, but it also causes frustration for the client.

### Proposed Solution

The scope of this document is to provide specifications for a self-serviceportal forallintegrations which will allow:

* A self-service portal enabling clients to configure their own AdTech integrations.
* Admin UI for IPC configuration and plugin management.
* Health-check dashboards for real-time monitoring of integration performance (push and pull).
* IPC API and database structures to support dynamic configuration, validation, and error reporting.

The Portal will also provide health checker services for integrations by providing real time information about health of integrations (integrations include both, Pushing of Campaign / IO/ BO and pulling of delivery).

## IPC Configuration Portal

IPC Portal will be designed for both Portal Administrators and Clients. The Administrator will be responsible for configuring Ad tool plugins in IPC and maintaining consumers (Clients). Whereas the Client Users will populate details for using these Ad Tool Plugins in IPC and Nexelus.

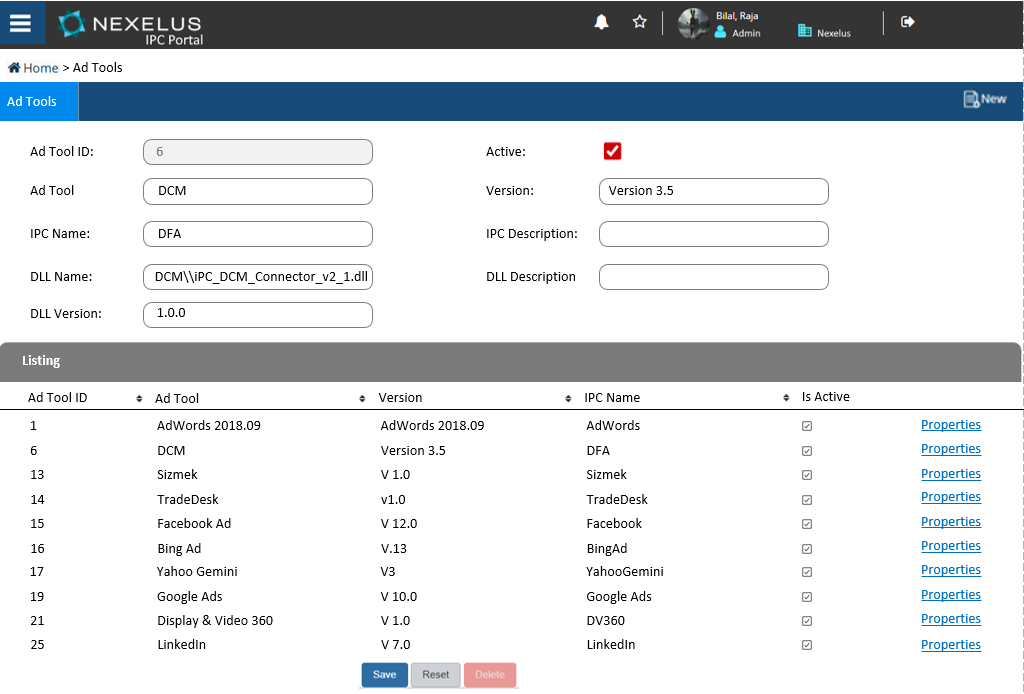
### Roles and Responsibilities

|  |  |
| --- | --- |
| **Role** | **Capabilities** |
| **Admin** | - Define new clients (Consumers) |
| - Configure Ad Tool plugins |
| - Manage users per client |
| **Client User** | - Setup Ad Tool credentials and other access details |
| - Monitor status |
| - Configure performance reports |

## Add Tool

AdAd Tool is an integration of an AdTech service with IPC Service. Each Ad tool needs to be configured separately.

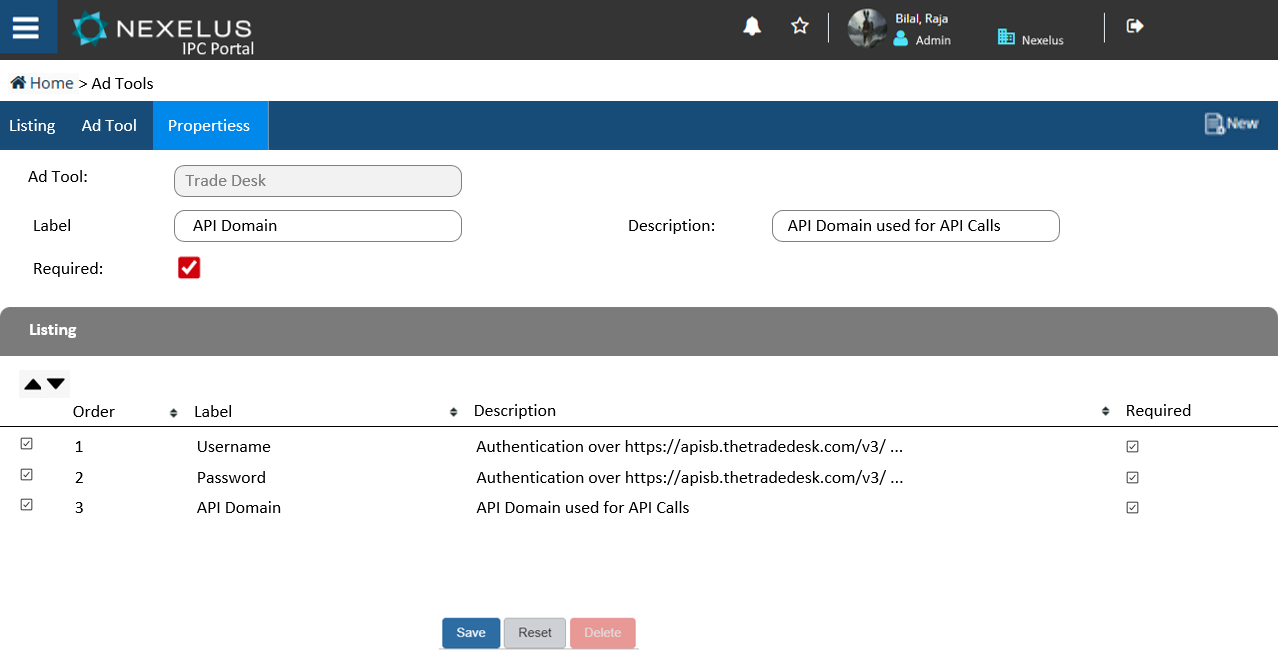
### User Interface



1. A Tool Listing

Clicking on Properties button in Grid will display UI to

**Note:** Installation of plugin is out of scope for this document. The portal only configures the installed plugins.



1. Ad Tool Configuration Fields

### Database Tables

#### Table: pdim\_ad\_tool

Ad Tool Plugin reference is created in this table

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
| ad\_tool\_id | int | Foreign Key |
| orig\_name | nvarchar | Ad Tool Name |
| orig\_version | nvarchar | Ad Tool Version |
| ipc\_name | nvarchar | Ad Tool IPC Name |
| ipc\_description | nvarchar | Ad Tool IPC Description |
| ad\_tool\_category | int | Ad Tool Category |
| is\_active | tinyint | Is Active |
| ipc\_connector\_dll\_name | nvarchar | DLL Path relative to IPC Setup |
| ipc\_connector\_dll\_description | nvarchar | DLL Descriptive Name |
| ipc\_connector\_dll\_is\_active | tinyint | Is DLL Active |
| ipc\_connector\_dll\_version | nvarchar | DLL Version |
| ipc\_connector\_dll\_release\_date | datetime | DLL Release Date |

#### Table: pdim\_ad\_tool\_api\_access

Fields required to configure Ad Tool are defined in this table

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
| ad\_tool\_id | int | Foreign Key |
| api\_access\_property\_id | int | Unique row identifier |
| display\_order | int | Display order for the field |
| label | nvarchar | Field Label |
| help\_description | nvarchar | Help Description |
| is\_required | tinyint | Is a required field |

## Consumer

Each Nexleus client is assigned a unique Consumer ID within the IPC system. This Consumer ID is consistent across all companies operating under the same Nexleus instance.

The Consumer table below outlines the assignment process. The initial step in the IPC integration workflow involves creating an entry in the Consumer table to allocate a Consumer ID to the respective Nexleus client.

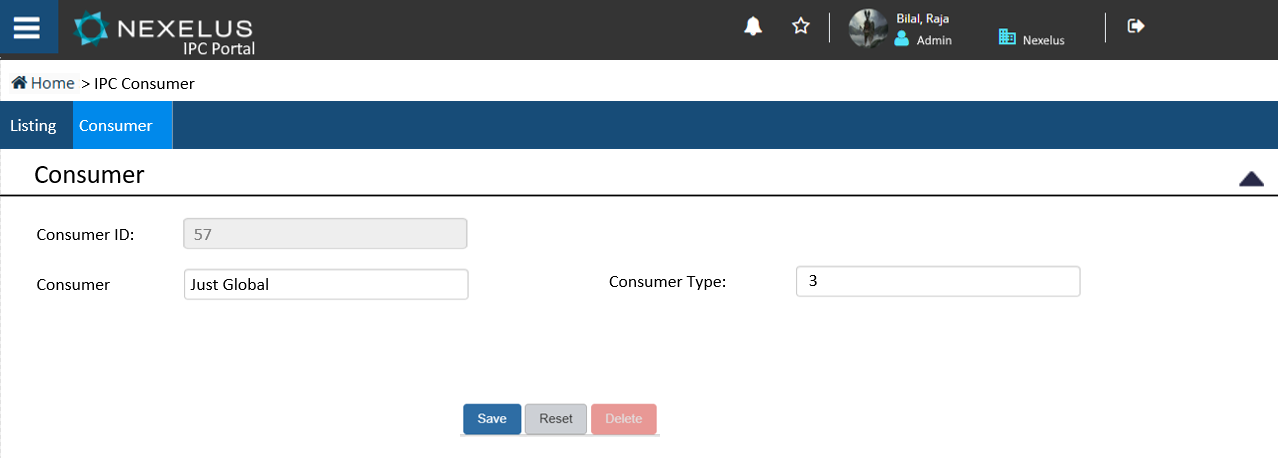
Note: This is a one-time setup per company. If a Consumer ID has already been assigned to a Nexleus client, it must be reused for any subsequent configurations—new IDs should not be created.

### User Interface:

A screenshot of a computer

AI-generated content may be incorrect.

1. IPC Consumer Listing



1. Consumer Editing

### Database Tables

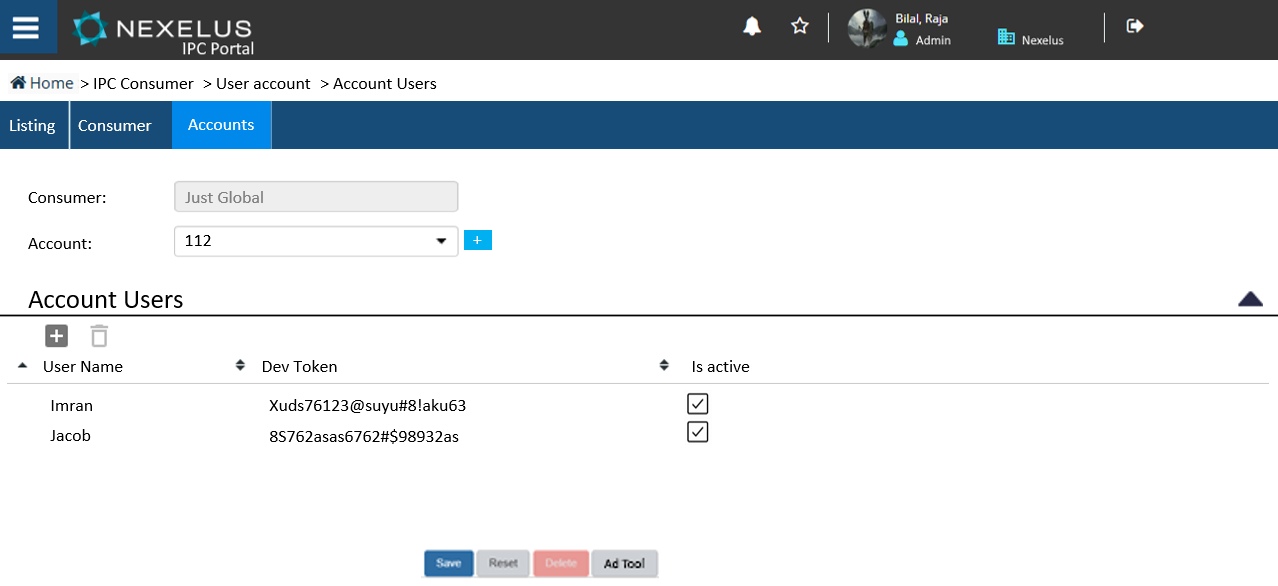
#### Table: PDM\_CONSUMER

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
| consumer\_id | int | Primary Key |
| name | nvarchar | Consumer Name |
| consumer\_type\_id | tinyint | Type of consumer indicates if it is internal client or external, currently we have only internal consumer whose value is 3. use 3 for Nexelus clients |

## Consumer Account

Consumer Account is a set of configurations of multiple Ad tools for use in Nexelus. Multiple accounts may be configured against a consumer/client.

### User Interface



Note: Listing and Consumer Tab will be visible only for Admin users. For standard users, only Accounts tab will be visible.

### Database Tables

#### Table: PDM\_CONSUMER\_ACCOUNT

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
| account\_id | Varchar(128) | Account ID for new client |
| Consumer\_id | Int | Foreign key |
| Eff\_date | Datetime | Current date |
| Exp\_date | Datetime | Future date when account will expire |

#### Table:  PDM\_ACCOUNT\_USER

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
| account\_id | Varchar(128) | Foreign key |
| user\_id | nVarchar | Unique id |
| user\_name | nVarchar | Current date |
| Password | nVarchar | Future date when account will expire. |
| is\_active | Tinyint |  |
| dev\_token | Varchar(256) | 333 for now for all entries. |

## Ad Tool Configuration

Each Ad Tool is configured separately for client usage

### User Interface

A screenshot of a computer

AI-generated content may be incorrect.

