



# IMSWorkX™ Personalized Call Screening

## Highlights:

- Easy-to-use IVR and Web-based user interfaces for maintaining subscriber screening preferences
- Flexible call treatments that can be configured based on subscriber needs
- Callers are authenticated with an audio CAPTCHA before the call is connected
- Integrates with TNS' Call Guardian to provide real-time network data analytics for accurately identifying both robo calls and call spoofing.
- Resides on the XpressWorkX™ Application Server multi - service environment using next generation network standards

IMSWorkX, Inc.



## Eliminate “Robo” Calls and Reduce Annoyance Calls

IMSWorkX™ Personalized Call Screening solution is an ultra flexible, highly customizable solution for screening incoming calls. Provide your subscribers with privacy by eliminating those annoying calls that use a computerized auto dialer to deliver pre-recorded messages (“robo” calls). Personalize the treatment for screened calls to ensure wanted calls are delivered, unwanted calls are not.

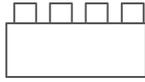
### Service Provider Input

Our solution empowers the Service Provider with the ability to take multiple call handling paths to identify and filter unwanted calls. The Service Provider can configure calls to be screened against subscriber-maintained lists, screened against Global lists, perform a simple human CAPTCHA test, record calling party greeting, or access TNS' Call Guardian, a real-time telephone number reputation analysis that provides the most accurate and timely detection of robocallers. This provides a meaningful solution to address multiple types of unwanted calls.

### Subscriber Input

Every subscriber has an associated white (allow) and black (deny) list they create and maintain. At any time, a full-featured IVR interface can be accessed which allows the subscriber to activate and deactivate call screening, manage both their white and black lists, and assign call treatments for unknown callers. From the web-based user interface subscribers can build their white list by importing their contacts from a Comma Separated Value list, as well as access the full functionality available from the IVR interface.

## Call Treatments



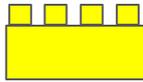
### White/Allow List

User defined list of Calling IDs to always connect. These lists can be managed by the Service Provider on behalf of all subscribers using the PCS service (global white list) as well as managed by the individual subscriber basis. A full Web-based user portal is provided for the subscriber to manage their personal lists.



### Black/Deny List

User defined list of Calling IDs to always block (disconnect call and not ring through). These lists can be managed by the Service Provider on behalf of all subscribers using the PCS service (global black list) as well as managed by the individual subscriber basis. A full Web-based user portal is provided for the subscriber to manage their personal lists.



### Audio CAPTCHA

An audio CAPTCHA is meant to provide a simple 'are you human' test. With CAPTCHA, the caller is prompted to enter a randomly generated 4-8 digit sequence to authenticate that the caller is human.



### Recorded Greeting

Callers are prompted to record a greeting to be played to the called party prior to the call connecting. The called party will hear the recorded greeting and can then decide if the call is to be connected, blocked or sent to Voicemail.. Our solution captures the recorded greeting from the calling party as well as the called party's selection.



### TNS Call Guardian

With TNS Call Guardian, calls are scored based on trusted analytics for the detection of call spoofing. TNS Call Guardian performs a real-time telephone number reputation analysis and call handling decisions are made based on a score, providing an accurate and timely detection of robocallers in the market.



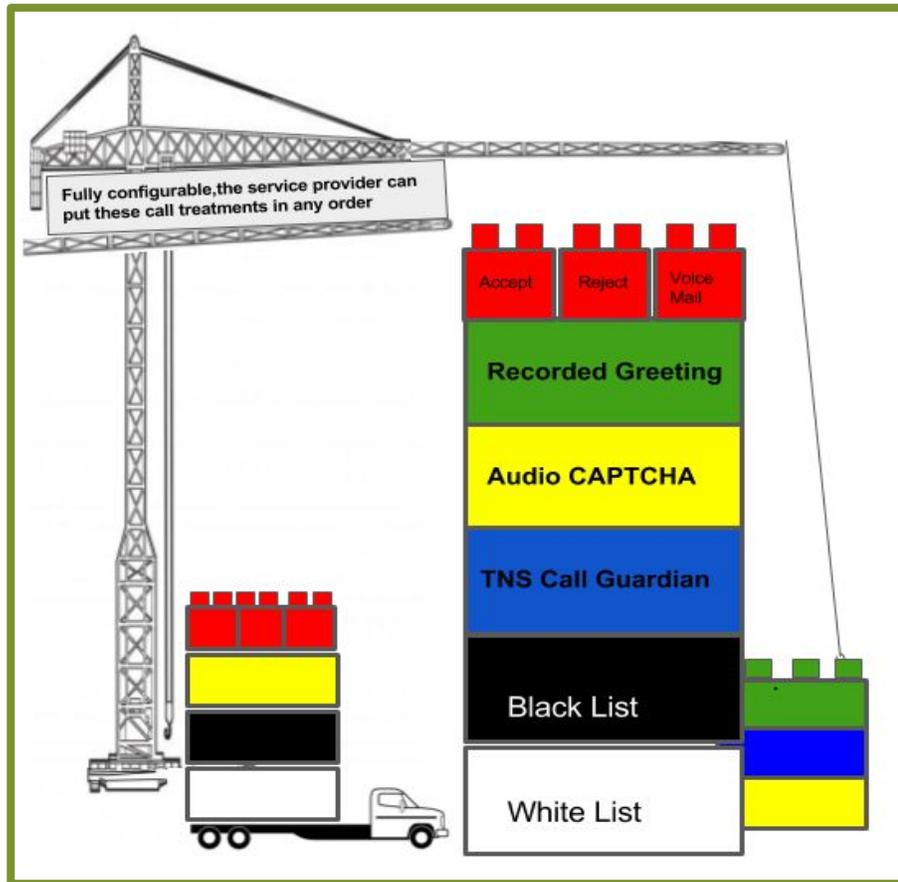
### Voice Mail Option

Any calls that would be blocked based on any of the call treatments above could be configured on a per subscriber basis to connect to Voicemail versus a simple disconnect.

# The Flexible Approach to Call Blocking

Widest range of options to manage calls and protect your subscriber's privacy

*We offer robust call treatment options that are like building blocks offering flexible layers of call handling choices that can be configured based on your subscriber's needs.*



## The Service Delivery Platform

IMSWorkX Personalized Call Screening is an application that resides on the XpressWorkX™ Application Server which uses next generation network standards and a multi-service environment that can be deployed on industry standard server hardware. The XpressWorkX Application Server's distributed processing and load balancing capability allows for rapid addition or modification of services with no interruption. The high availability features of the application server ensure that users always have access to their Personal Call Screening service.

## Complete Voice Service Solution

IMSWorkX provides powerful service layer applications for VoIP, VoLTE, IMS and Converged IP/TDM networks that are flexible to meet the needs of any network and subscriber. The highly scalable XpressWorkX software platform brings added value to service providers because of its proven ability to provide current services on legacy networks while simultaneously allowing rapid development of new services for evolving networks.

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