Mida eFramework

Mida LiteCallCenter Configuration Guide

Mida Solutions

Document Version: 1.0

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1.Introduction

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1.2 Preface

This document is part of the official documentation of Mida Solutions products and details functionalities, user interface, option and working modes in detail. The system allows the user to configure all system functions using a simple and intuitive WEB interface. Please refer to the reference table for a complete list of documents relevant for system configuration.

1.3 Audience

The present document addresses both end users and system administrators of the products.

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1.4 Notations



This document highlights, where possible, the main parameters and operations through **bold** or *italics* text and all parts that might be critical during system configuration or use. Critical parts are also marked with Warning symbol reported here on the left.

1.5 References

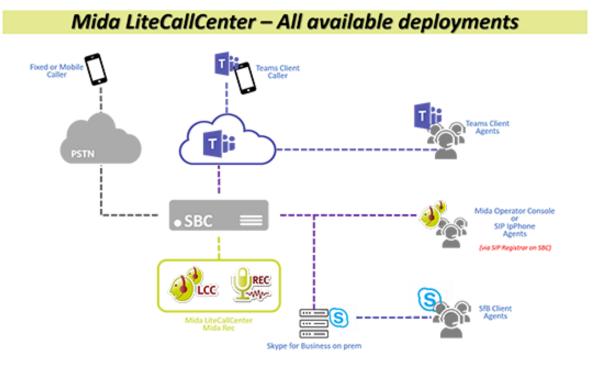
This manual includes references to the following list of documents:

- [1] Mida_Unified_Portal-Administration_&_User_Manual
- [2] www.midasolutions.com/browsercompatibility

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2. Architectural Overview



3. Mida LiteCallCenter configurations

3.1 Creating/editing users and adding extensions

To create a new user, follow the next steps:

A. Create a new extension:

- I. Access the *Extensions management* page going to *Extensions > Extension list* from the navigation menu on the left.
- II. Click on *Add new extension* and fill in the required details:

Extension: it is the extension as configured in the PBX
Device Name: insert the desired name
IP address: insert the IP of the PBX where the extension is already registered
Model: insert as preferred
Description: insert the desired description

Click on **Save** when finished.

Home Users	Extension	Management			
Extensions				Add new extension	
Extensions List		Q Q	1 to 10 items of 49 Exten	isions found 🖛 📫 10 🗸	
Partitions	Extensions	Device Name	Partitions	Options	
	interesting data provide a first	10,000	(No partition)	🤏 😳 🛪	
Attributes	-0.00	and the second s	(Ne estilies)	0.0 1	
Import	1993	New Extensio	n		
Contacts	100	Extension		Partition	(no partition) 🧹
Configuration	1000	Device Name		IP Address	
		Model		Description	

B. Create a new user:

- I. Access the **User Management** page, going to **Users > List** in the navigation menu.
- II. Click on Add New User and insert the required user's information.

HomeUsers	User Manageme	ent			
List			Add new us		
Access Profil	les		1 to 10 items of 53 User found 🔶 🔶 [
Mew user		ass Level	Options		
User information		Jsers	🧈 🌲 🕫		
vest internation		nistrators	2		
Username	Tenant default	nistrators	🧈 🌸 🛪		
Password	Password check	Users	🥐 💑 🔀		
Password		ervisors	🥐 🚑 🙀		
Language 🛛 🗸	PIN				
Access profile Administrator	s 🗸 Active directory				
First name	Last name				
Display name					
Office	Department				
Company					
Business Number	Business Mobile				
Home Number	Home Mobile				
Fax Number					
Job Title	Business Email				

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C. Associate the extension to the new user.

I. Back in the **User Management** page, click on the **User edit** button, to associate an extension to the user.

User Administrator	>> Users		🏠 Logou
Home			
Users	User Managem	ient	
▶ List			Add new use
Access Profiles		•	
Active Directory	User	1 to 10 it	ems of 53 User found < 🔶 10 Options
Import	User	Users	
Groups	and the second s	Administrators	
Extensions	admin-dama	Administrators	🥐 💑 🗶
Extensions	allocation realistic	Users	🧈 💑 🙀
Contacts	andrea.com	Supervisors	🥐 👗 🔀

II. Click on the **Associated extensions** tab and then on **Add new extension** to associate the desired extension to the user. Click **Save** when finished.

HEV Fage Autoress	note				
Info					
	 Associated extension: 	\$			
Change Password	Extension	Device Name	IP Address	new extensio	
Applications	226	SEP885A92D9E482	N/A	2	
Associated extensions					Extensions
Voice Office Configuration				Q	1 to 10 items of 10 Extensions found 🌾 🏓 🔟 🗸
			state communications and	(inter y	
			Sent Conversion and	4.00	
			SOR LETTICIONS (SA)	- 61	

3.1.1 Import more users at once

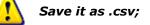
Once the first user is correctly created (following the previous instructions), it is possible to import all the desired contacts at once:

- I. Go to **Users > Import** in the navigation menu;
- II. Click on the **Download** button in the **Export** section to export the existing user configuration (exported as .csv file in the platform directory).



Please check the exported users' access level is set to users to download only user information, otherwise the new users may be created with different access levels.

III. Modify the downloaded file respecting the existing labels (the first contact will work as guide).



- IV. Back in the *Import users* page, use the *Browse* function to upload your updated file to the system. Once found, click on *Upload*.
- V. The system will automatically upload all the list, configuring the new users in the directory and assigning them the extensions inserted in the csv file (new extensions will be automatically created).

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3.2 Audio configuration

The Mida LiteCallCenter can give a set of greetings (e.g. welcome, IVR menu, out of service...) depending on the specific service configuration.

All audio files have to be uploaded previously using this page.

A list of supported audio formats is available at [2].

			Upl	oad a	udio
File name	Notes	Services	0	ption	IS
e_Welcome.wav	welcome EN	1	۹.		24
e_ShortWait.wav	short wait EN	1	۹.		24
e_LongWait.wav	long wait EN	2	9		24
e_Retry.wav	retry EN	2	۹.		24
e_OOS.wav	oos EN	5			34

For each audio file, the page provides the following information:

- File Name: is the real name of the uploaded file (e.g. Welcome.wav)
- Notes: can be used to insert a brief note on the file
- Services: number of services using the media
- Options: available options are:

X

 Oetails: show additional details on the selected media.

 Download: download the file locally.

Delete. A warning dialog box will pop-up for confirmation.

				Upl	oad a	udio
File name		Notes	Services	0	ption	IS
e_Welcome.wav		welcome EN	1			24
e_ShortWait.wav		short wait EN	1			24
e_LongWait.wav		long wait EN	2	(h)		24
				0	Detai	ls
						e,
Service Number			Treatment			
London	2	Que	ue manager advance	ed		
Mida	3	Oue	ue manager advanc	ed		

To add new audio files, click on **Upload audio file** on the top right (see previous images): a dialog box will pop-up to upload the new file.

			Upload audio fil
		Add File	
File	Choose File No file chosen		
Notes			

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3.3 Create/edit services

To create new services, click on *Add Service*, on the upper right corner in the Service page. This interface is reached even when editing existing services (clicking on ⁹⁹).

3.3.1 Main parameters

asic info	
Name	Basic Queue
Number	6
Timezone	Europe/Rome V
Service opening	Automatic 🔻
 Opening time 	
Add time interval	
Assigned	Available
Start End M T W T F S	
00:00 23:59	08:00 11:00
	19:00 21:00
	09:00 13:00
	14:00 18:00
	⇒
In service treatment	

The **Service configuration** section allows to set the basic parameters:

• Name: set the desired service name;

- Number: set the service internal extension number (to be set accordingly with the SBC dial plan);
- **Timezone**: set the timezone related to this particular queueing service.
- Service Opening:
 - <u>Automatic</u>: the service will automatically be opened/closed by the system (see section Opening Time for further details on opening time configuration)
 - <u>Manual</u>: service opening/closing has to be manually set by system administrators/supervisors through the web portal; in this case two other parameters have to be set:
 - Status: is used to set the service status (open/close)
 - *Switch back to auto mode*: set a time after which the service is reverted to automatic mode

asic info	
Name	Basic queue
Number	6
Timezone	Europe/Rome T
Service opening	Manual 🔻
Status	Open 🔻
Switch back to auto mode	21:00

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<u>Opening Time</u>

The opening time used by services in Automatic mode can be configured in this section. The use is similar to the **Opening time** tab available on the common default configuration area.

dd tim	ie interva	1																
Assign	ned								Availa	ble								
Start	End	м	T	W	т	F	5	S	Start	End	м	т	W	т	F	s	s	
00:00	23:59								09:00	13:00						1		
									14:00	18:00								
									07:35	11:35								24
									09:00	12:00								24
									12:00	12:30								24
									12:30	13:00								24
									13:00	18:00								34

3.3.2 In-service treatment

The *In-service treatment* tab allows to configure the desired call treatment during the service opening hours.

The available treatments are:

- *Hangup*: simply hang up calls incoming to services with this treatment;
- Transfer: transfer incoming calls to a different number after providing the desired audio message;
- Smart Call Routing: forward the call to a different number;
- Play message: provide the desired audio message and then hang up the call;
- **Phono repeater**: provide the desired audio message and number (i.e. to inform caller about a different number to be called);
- **Queue manager**: basic queueing system, without agent management (no skill management, selective login/logout, ...) and queue supervisors;
- **Queue manager advanced**: advanced queueing service, with agent management, queue supervisors, BLF monitoring, selective login/logout and more;
- **Queue manager presence driven**: same functionalities of the **Queue manager advanced**, with presence driven call distribution;
- **IVR**: completely customizable interactive voice response system, with DTMF tone detection.
- **Go to service**: incoming calls are forwarded to another service.

<u>Transfer</u>

Forward calls to a different number after welcoming them with the desired audio message.

- **Transfer to**: insert the destination number (e.g. internal extensions, hunt pilots or outbound numbers...)
- **Message**: from the drop-down list, select the appropriate media available (to add new audio file refer to section 2.3)

Freatment	Transfer	
Transfer to	2345	
Message	e_Welcome.wav (welcome EN)	۲

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Smart Call Routing

This functionality allows to substitute the desired digits of the service number (starting from the left and prefix excluded), in order to forward the call to a different number.

Simply set in *Replace service number with* the digits to be used.

To reproduce a message before forwarding the call, select it from the **Message** drop-down menu.

Treatment	Smart call routing	
Replace service number with		
Message	No message	¥

<u>Play message</u>

Choosing the *Play message* option, the system welcomes the incoming calls with the configured message then hangs it up

Simply select the desired audio file from the **Message** drop-down menu (to add new audio file see section **Errore. L'origine riferimento non è stata trovata.**).

Treatment	Play message 🔹 🔻	
Message	e_cust1.wav (msg1 EN)	•

<u>Phono repeater</u>

Provides the desired audio message followed by the vocalization of the number in the *Play number* textbox (treatment useful for number change cases)

- **Message**: select the desired media from the drop-down list (to add new audio file refer to section 2.3)
- **Play number**: the dynamic number vocalized by the system
- **Number of replays**: the number of times the system replays the message and number

Treatment	Phono repeater V	
Message	e_cust2.wav (msg2 EN)	•
Play number	049760185	
Number of replays	2	

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<u>Queue Manager</u>

Set up a basic queuing system, without agent management (no skill management, selective login/logout, ...) and queue supervisors.

Calls are forwarded to several **Destination Phone Numbers** (see figure below).

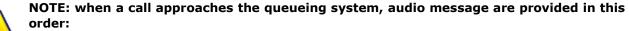
Treatment	Queue manager 🔹	
Max number of waiting calls	0 (0 =	no limits)
Max waiting time (s)	60 (0 =	no limits)
On queue overflow	Hangup 🔻	
Give short waiting prompt after (s)	30	
Give long waiting prompt every (s)	60	
Give position (after long wait message)		
Attempt no answer timeout (s)	15	
Call distribution type	Round robin V	
Breakout option		
Music on hold	Default value	
Welcome message	e_Welcome.wav 🔻	
Short wait message	e_ShortWait.wav ▼	
Long wait message	e_LongWait.wav 🔻	
Overflow message	e_Retry.wav T	
Breakout message	e_Retry.wav	
Queue announcement message	No message 🔻	
Destination phone numbers	Add destination	

- **Max number of waiting calls**: when this condition is exceeded, the system enter the queueoverflow condition. If 0, no limit is set;
- Max waiting time: max waiting time in seconds. Exceeding this limit triggers overflow condition;
- **On queue overflow**: on overflow conditions, it is possible to:
 - <u>hang-up</u>
 - <u>forward to another extension</u> (to be specified in **On queue overflow Transfer to**)
- **Give short waiting prompt after (s)**: waiting time before short waiting message is provided (Timeframe for Waiting Messages);
- **Give long waiting prompt every (s)**: period in seconds for the cyclic long waiting message (Timeframe for Waiting Messages);
- **Give position (after long wait message)**: it is possible to enable this function to inform caller on the queue position after the long wait message;
- **Attempt no answer timeout (s)**: specify parameters for no answer timeout
- **Call distribution type**: dispatching rules for incoming call. Available options are:
 - <u>Round-robin</u>: the system calls the number in the list in round-robin mode until the answer of one of destinations; the next call, the system starts trying from the destination next to the last that answered, and so on... (based on ringing time)
 - <u>Broadcast</u>: all destinations ring simultaneously, the first to answer takes the call
 - <u>Linear</u>: contacts the destination number that answered longer time ago
 - <u>*Top-Down*</u>: always from the first to the last of the list
- Breakout option: enabling this option, callers will be able to exit the queue digiting the dedicated code (to be inserted in the Breakout DTMF code textbox). It is possible to configure even how the system should behave in breakout situations (select between Hangup or Transfer from the Breakout action menu).

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Greetings configurations (for adding new audio files refer to section 3.2):

- Music on hold: leave default value or select the appropriate media available from drop-down list
- Welcome message: select the appropriate media available from drop-down list
- Short wait message: select the appropriate media available from drop-down list
- Long wait message: select the appropriate media available from drop-down list
- **Overflow message**: select the appropriate media available from drop-down list
- **Breakout message**: select the message to be played in breakout cases (if breakout option is enabled)
- **Queue announcement message**: select this message to inform agents from which queue the incoming call comes.



order: Welcome > ฦ > Short Wait > ฦ > Long Wait > ฦ > Long Wait > ฦ ... > OPERATOR

• **Destination phone number**: insert the list of extensions use by the system to forwards the incoming calls.

Queue Manager Advanced

The **Queue Manager Advanced** provides functions similar to the basic **Queue Manager**, with advanced features like agent availability management (login/logout) through XML service, web interface or operator console.

Treatment	Queue manager advanced	
Max number of waiting calls	0	(0 = no limits)
Max waiting time (s)	60	(0 = no limits)
On queue overflow	Transfer V	
On queue overflow - Transfer to		
On no available agents	Transfer v	
On no available agents - Transfer to		
Give short waiting prompt after (s)	30	
Give long waiting prompt every (s)	60	
Give position (after long wait message)		
Attempt no answer timeout (s)	15	
Call distribution type	Round robin v	
Breakout option		
Breakout DTMF code		
Breakout action	Hangup 🔻	
Ready/Not Ready	Default 🔻	
Music on hold	Default value	
Welcome message	e_Welcome.wav V	
Short wait message	e_ShortWait.wav ▼	
Long wait message	e_LongWait.wav V	
Overflow message	e_Retry.wav ▼	
No available agents message	e_Retry.wav ▼	
Breakout message	No message 🔹	

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Configurable parameters are:

- **Max number of waiting calls**: when this condition is exceeded, the system enter the queueoverflow condition. If 0, no limit is set;
- Max waiting time: max waiting time in seconds. Exceeding this limit triggers overflow condition;
- **On queue overflow**: on overflow conditions, it is possible to:
 - o <u>hang-up</u>
 - *forward to another extension* (to be specified in **On queue overflow Transfer to**)
- **On no available agents**: on no available agents situations, it is possible to:
 - o <u>hang-up</u>
 - o <u>forward to another extension (to be specified in **On no available agents Transfer to**)</u>
 - <u>keep waiting</u>
 - go to out of service treatment
- **Give short waiting prompt after (s)**: waiting time before short waiting message is provided (Timeframe for Waiting Messages)
- **Give long waiting prompt every (s)**: period in seconds for the cyclic long waiting message (Timeframe for Waiting Messages)
- *Give position (after long wait message)*: it is possible to enable this function to inform caller on the queue position after the long wait message;
- Attempt no answer timeout (s): specify parameters for no answer timeout
- **Call distribution type**: dispatching rules for incoming call. Available options are:
 - <u>Round-robin</u>: the system calls the number in the list in round-robin mode until the answer of one of destinations; the next call, the system starts trying from the destination next to the last that answered, and so on... (based on ringing time)
 - *Broadcast*: all destinations ring simultaneously, the first to answer takes the call
 - <u>Skill-based</u>: contact agents with higher skills first
 - <u>Idle</u>: contact agents that have been available for longer time first; the availability is calculated from the disconnection of the last served call (based on disconnect time)
 - <u>*Top-Down*</u>: always from the first to the last of the list (the order is set by the skills)
- **Breakout option**: enabling this option, callers will be able to exit the queue digiting the dedicated code (to be inserted in the **Breakout DTMF code** textbox). It is possible to configure even how the system should behave in breakout situations (select between *Hangup* or *Transfer* from the **Breakout action** menu).
- **Ready/Not Ready**: if enabled, the **Ready/Not Ready** feature allows agents to change their status in case they are to leave the console for a moment, without completely logging out from the queues. Operative status is **Ready**; in **Not Ready**, users are not considered as completely logged out from the service/s, but the system will not forward them queue calls.

Greetings configurations (for adding new audio files refer to section 3.2):

- Music on hold: leave default value or select the appropriate media available from drop-down list
- **Welcome message**: select the appropriate media available from drop-down list
- Short wait message: select the appropriate media available from drop-down list
- Long wait message: select the appropriate media available from drop-down list
- **Overflow message**: select the appropriate media available from drop-down list
- No available agents message: select the message to be played on no available agents situations;
- Breakout message: select the message to be played in breakout cases (if breakout option is enabled)
- **Queue announcement message**: select this message to inform agents from which queue the incoming call comes.



NOTE: when a call approaches the queueing system, audio messages are provided in this order:

Welcome > J > Short Wait > J > Long Wait > J > Long Wait > J ... > OPERATOR

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Queue Manager presence driven

Very similar to the **Queue Manager Advanced**, the **Queue Manager presence driven** monitors agents' presence status instead of the BLF status.

Treatment	Queue Manager presence driven V	
Max number of waiting calls	0	(0 = no limits)
Max waiting time (s)	60	(0 = no limits)
On queue overflow	Transfer v	
On queue overflow - Transfer to		
On no available agents	Transfer v	
On no available agents - Transfer to		
Give short waiting prompt after (s)	30	
Give long waiting prompt every (s)	60	
Give position (after long wait message)		
Attempt no answer timeout (s)	15	
Breakout option		
Ready/Not Ready	Default 🔻	
Music on hold	Default value	
Welcome message	e_Welcome.wav T	
Short wait message	e_ShortWait.wav ▼	
Long wait message	e_LongWait.wav ▼	
Overflow message	e_Retry.wav ▼	
Breakout message	e_Retry.wav ▼	
Queue announcement message	No message 🔻	

- **Max number of waiting calls**: when this condition is exceeded, the system enter the queueoverflow condition. If 0, no limit is set;
- **Max waiting time**: max waiting time in seconds. Exceeding this limit triggers overflow condition;
- **On queue overflow**: on overflow conditions, it is possible to:
 - o <u>hang-up</u>
 - *forward to another extension* (to be specified in **On queue overflow Transfer to**)
- **On no available agents**: on no available agent situations, it is possible to:
 - o <u>hang-up</u>
 - o *forward to another extension* (to be specified in **On no available agents Transfer to**)
 - o <u>keep waiting</u>
 - o go to out of service treatment
- **Give short waiting prompt after (s)**: waiting time before short waiting message is provided (Timeframe for Waiting Messages)
- **Give long waiting prompt every (s)**: period in seconds for the cyclic long waiting message (Timeframe for Waiting Messages)
- *Give position (after long wait message)*: it is possible to enable this function to inform caller on the queue position after the long wait message;
- Attempt no answer timeout (s): specify parameters for no answer timeout
- **Breakout option**: enabling this option, callers will be able to exit the queue digiting the dedicated code (to be inserted in the **Breakout DTMF code** textbox). It is possible to configure even how

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the system should behave in breakout situations (select between *Hangup* or *Transfer* from the **Breakout action** menu).

Ready/Not Ready: if enabled, the Ready/Not Ready feature allows agents to change their status in case they are to leave the console for a moment, without completely logging out from the queues. Operative status is Ready; in Not Ready, users are not considered as completely logged out from the service/s, but the system will not forward them queue calls.

Greetings configurations (for adding new audio files refer to section 3.2):

- Music on hold: leave default value or select the appropriate media available from drop-down list
- Welcome message: select the appropriate media available from drop-down list
- Short wait message: select the appropriate media available from drop-down list
- Long wait message: select the appropriate media available from drop-down list
- **Overflow message**: select the appropriate media available from drop-down list
- Breakout message: select the message to be played in breakout cases (if breakout option is enabled)
- **Queue announcement message**: select this message to inform agents from which queue the incoming call comes.



NOTE: when a call approaches the queueing system, audio message are provided in this order:

Welcome > J > Short Wait > J > Long Wait > J > Long Wait > J ... > OPERATOR

V.I.P. contacts

It is possible to configure contacts as **V.I.P.**

These contacts are managed as privileged, as any incoming call done by a number assigned to a V.I.P. contact is put in front of the queue (bypassing FIFO order).

To configure **V.I.P. contacts** go to **Contacts > Home**, search the desired contact and flag the **VIP** option

<u>IVR</u>

Automatically handle calls with voice and DTMF tone detection. The IVR system can reply with pre-recorded or dynamically generated audio messages.

Below, the main steps to configure a new IVR service:

a) Select *IVR* as treatment (and optionally a welcome message); then save the configuration.

Treatment	IVR •	
Welcome message	e_ivr_welcome.wav (ivr welcome EN)	•

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b) Click on Manage menu and options

Treatment	IVR •	
Welcome message	e_Welcome.wav (welcome EN)	۲
Main menu	No menu Manage menu and options	

c) Create a new menu clicking on *Add menu* (or select an existing one)

	a	
Add menu		
	No Item Found	

d) Configure menu options

Menu name	Main Menu	
Menu message	e_ivr_menu.wav (ivr menu EN)	•
DTMF length	1 •	
Add option Delete all options		D
Option number	1	
Action	Transfer	
Transfer to	12345	
Message	No message	

e) Once all the options are configured, click the *Save* button

Menu name	Main Menu	
Menu message	e_ivr_menu.wav (ivr menu EN)	•
DTMF length		
Add option Delete all options Option number	Action	Options
On no selection	Play message	×
1	Transfer	1 22
		Save Back
Ş		

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f) Go back to the main page, select the new menu (*Main Menu*) from the drop-down list and save the configuration.

Treatment	IVR •	
Welcome message	e_Welcome.wav (welcome EN)	•
Main menu	Main Menu Manage menu and options	

<u>Go to Service</u>

Choosing the *Go to Service* option, the system forwards the incoming calls to another configured voice service.

NOTE: this treatment may be useful to simply configure where there is the need to give the same "in service" treatment to more than one service but differentiate the opening time and out of service treatment.

In service treatment		6
Treatment	Go to service	
Service	Basic Queue (6) *	
	Basic Queue (6) Bologna (8)	
	IVR Boston (4) IVR Roma (5) London (2) Mida (3) Milano (7) Padova (1)	

3.3.2.1 Advanced Queue Manager – Supervisors and Agents configuration

Using the **Agents configuration** section (in the navigation bar), it is possible to link one or more agents to a queue, assigning them a specific skill level (needed for the **Queue Manager Advanced** treatment).

		٩		Login,	/Logout service num	ber: 969995
		Number	Supervisors	1 to 3 i	tems of 3 Services four Agents logged	nd 🖛 10 Options
State	Name	Number	Supervisors	Agents	Agents logged	Options
State	London	2	0	1 1	1	
State O		110,000,000,000,000,000	Contraction of the Contraction of the	1 1	1 1	

The page lists only the Advanced Queue Manager Voice Services and for each voice service the following information is provided:

- **State**: show a green or red bullet depending on the voice service status (green=in service time; red= out of service time)
- Name: label identifying the voice service
- Number: it is the voice service internal extension number
- Supervisor: number of supervisor users associated to the service queue
- **Agents**: number of agents/operator configured for the service queue
- Agents Logged: number of agents logged in for the voice service
- Options:



Details: open a section with the details on the agents and the supervisor configured

Add Agents: open a dialog box for new agents' configuration

Queue Details

Queue detai	s New York					
		٩				
Name	Number	State	1 Supervisor	to 3 items of Agent	of 3 Agents Skill	found < 🔶 10 Options
demo1	4301	9		1	0	2
					0	8. 50
demo2	4302	¥	V	· · ·	· ·	· 26 · • •

Figure 1: Voice Services: Agents&Supervisor – Queue Details

This section shows the list of users related to the queue as agents and/or supervisors, providing for each user the following information:

- Name: agent's username
- **Number**: extension number related to the user
- State: red lamp means logout, green lamp means login (also a tooltip is available)

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3.3.3 Out Of Service Treatment

This tab allows to configure the default Out-Of-Service (OOS) treatment (see 3.3.2).

 Out of service tree 	eatment	
Treatment	Hangup 🔻	
	Hangup	
	Transfer	Save
	Smart call routing	
	Play message	
▶ Holidays	Phono repeater	
/ Hondays	Go to service	

Available options are:

• **Hang-up**: drop the call without any message (see 3.3.2).

▼ Out of service treatme	ent	
Treatment	Hangup V	Save

• **Transfer**: transfer the call to a specific destination number; a message may be optionally set choosing it from preloaded media and the system will play it before transfer (see 3.3.2).

✓ Out of service treatment		
Treatment	Transfer 🔹	
Transfer to		
Message	No message V	
		Save

• **Smart Call Routing**: working accordingly with what configured in the **Smart Call Routing Configuration** section, this functionality allows to substitute the desired digits of the service number (starting from the left and prefix excluded), in order to forward the call to a different number. Simply set in *Replace service number with* the digits to be used (in the **Smart Call Routing Configuration**, set the number of digits to be changed).

Out of service treatment	
Treatment	Smart call routing V
Replace service number with	
Message	No message V
	Save

• **Play message** (and then hang-up): it is possible to play a message, selecting it from the dropdown list (see 3.3.2).

✓ Out of service treatment		
Treatment	Play message 🔻	
Message	e_OOS.wav 🔻	
	Save	

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• **Phono repeater**: to transfer the call to the phono repeater service (it is possible to configure the specific message and phone number to play (see 3.3.2).

Out of service treatment	
Treatment	Phono repeater V
Message	No message 🔻
Play number	
Number of replays	

• **Go to Service**: transfer call to another Voice Service (see 3.3.2).

 Out of service treatment 	
Treatment	Go to service V
Service	Coda1 (2000) 🔻
	Save

3.3.4 Holiday

From the *Holiday* section, it is possible to configure the desired behavior during vacancies and/or "not-working" days.

- Holidays					
Add service holi Notes	iday Starting day	Ending day	Year	Treatment	Options
Notes	Starting day	Linung day	rear	rreatment	
Christmas	25/12	25/12	Every year	Play message	🧈 🔀

To add new holidays, use the **Add service holiday** link available on the top left corner; this action link opens the new/edit page.

Date	Any year 🕑	
extend period		
Treatment	Play message 🔻	
Message	e_OOS.wav V	

For each holiday, it is possible to configure:

- **Description**: insert here the desired name to quickly identify the holiday (e.g. Christmas, Easter, summer closure...)
- **Date:** insert the date of the holiday
- **Any year**: flag this checkbox if it is a recurring holiday (e.g. Christmas)
- **Extended period**: flag this checkbox to set a holiday period (not a single day, e.g. summer company closure); this action enables to set two dates:
 - **Starting day**: the first holiday day
 - **Ending day**: the last holiday day

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• **Treatment**: choose how the system should behave during holidays. The available treatments are the same of the Out of service hours (Hangup, Transfer, Smart Call Routing, Play a message, Phono Repeater, Go to service); see section 2.2.2 for further details.

itarting day		
Extend period Ending day		
Treatment	Play message 🔻	
	e_OOS.wav	

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3.4 Supervisors

Supervisor users have the following rights:

- Access to historical statistics
- Manage the manual open/close service
- View the agent list and force their login/logout (only for Advanced Queue Manager services)

User Administrator	>> Applications	>> QueueM	anager & IVR				🏠 Logoi
▶ Home							
Contacts	🍎 /	Agents	configura	tion			
Applications	Services						
QueueManager & IVR	Services						
Agents configuration					Login/Lo	gout service number:	602999500
Agents configuration			Q				
Reports					1 to 1 it	ems of 1 Services found	← → 10 ▼
	State	Name	Number	Supervisors	Agents	Agents logged	Options
		Coda1	2000		3	2	

Users with supervisor access profile are listed in the **Supervisors** page that can be opened from the navigation bar on the left (administrators can access it going to **Applications > QueueManager & IVR > Supervisors**).

For each supervisor, it is possible to see the number of related services and, clicking on the **Details** button, their name and the **Delete** option (to remove related services). Acting on the **Add service** button, it is possible to relate new services to the supervisor.

Supervisors		
0		
~		
	1 to 4 items of 4 Supervisors fo	
Name	Associated services	Options
and plants before an	2	🧼 🔍
holomorphic in all value all	2	🧀 🔍
Increase (Description)	0	ی چې
ronny.tittoto (Tittoto Ronny)	2	۹
Associated services		
9		
9	1 to 2 items of 2 Supervisors fo	und 🖛 🔿 10 🔹



4. Recorder configuration

4.1 Sniffer recorder configuration

It is possible to configure Mida LiteCallCenter to record calls in sniffer mode. In this case, the system will record all calls (using a configured mirror port) without providing any audio prompt nor asking users for authentications.

To configure Mida LiteCallCenter recorder module, go to *Applications > Recorder > Configuration*.

 Sniffer configuration 				
Calls filter*	ExtensionDescription	Device Name IP Address	🗆 Model	
Enable segmentation	600 (s)			
Enable stereo recording	g 🔲			
Show calls without metadata	•			
Metadata alarm time	10	Minimun meaningful duration	2	
SNMP Table mode	Dynamic v			
Blacklisted IP				
Pcap filter				
Subnet Select All / Deselect All	No) Item Found		
Edit subnet				Save
*Special chars in calls filter	r are not allowed and may gener	ate unpredictable results		

Available settings are:

- Call filters: as in sniffing mode all calls can be recorded, it may be necessary to specify and record only some of them. Using this filter, in combination with the extension attributes (create a new attribute named "rec" and with value 1, in the Attributes page, see [1]), the system will search in the selected field/s the call metadata. If matched the system will record the call. Fields to be used as filters are:
 - Extension
 - Description
 - Device Name
 - IP Address
 - o *Model*
- **Enable segmentation**: it is possible to constantly record the mirror port stream, even on no active calls. In this case, files will be cut at the duration set here;
- Enable stereo recording: if flagged, audio will be recorded in stereo;
- **Show calls without metadata**: if necessary, using SNMP requests, it is possible to get a realtime table showing active calls (dynamic mode) or the desired extensions (even if not involved in any calls; static mode). Flagging this option, the system will present in the table even calls with RTP signalling, of which the only known data is the IP address. Additional settings are:
 - Metadata alarm time: call status is changed to alarm if call metadata are not available for longer than the time inserted here (in seconds);
 - *Minimum meaningful duration*: minimum duration for a call to be put on the table;
- SNMP Table mode: select whether to show active calls only (Dynamic) or a static list of extensions (Static) in the table requested via SNMP.

- **Blacklisted IP**: calls involving the IP addresses inserted here will not be recorded. Separate IP address with commas;
- **Pcap filter**: insert here pcap filters to best define which calls to be recorded;
- **Subnet**: it is possible to record only calls from the desired subnet, selecting it from the list.

Settings are stored by clicking **Save**, but it may be required to restart the recording service to apply them. In case, a pop-up will notify this.



Once completed all settings, activate the sniffer recorder. Go to Administrator > Monitor > Services, click on Enable service ? and then Start .

4.2 Playback station

The **Playback station** allows to search and listen the recordings collected.

 Record 	ings archive				
Timezone		Europe/Rome	T		
From		01/01/2018 - 00:00	То	03/12/201	8 - 23:59
Search				Extended	time filter
Playback	Scenario		1 to 4	,	Advanced Search 🔍
	Scenario annel Sourc	e Service ID	1 to 4 Data0	,	Advanced Search 🔍 found 🍝 🌩 10 🔻
Ch		e Service ID Extended VRS		4 items of 4 Recordings	found () 10 v Date Duration
				4 items of 4 Recordings	found () 10 T Date Duration 03/12
Ch ()		Extended VRS	Data0	items of 4 Recordings Data1	_

4.2.1 Recording archive

The **Recording archive** section shows all collected recordings in the selected timespan and allows to complete basic or advanced searches, clicking on **Advanced Search**.

Clicking on a recording, the system shows all the related details.

Default details are:

- Record state: provides information on the recording storage (online, archived, ...);
- User: the user who completed the recording (if available);
- **Database ID**: the ID of the database where the recording is saved;
- **Record ID**: the ID of the recording;
- Channel source: the extension that completed the recording;
- Service ID: identifies the recorder;
- **Start time**: recording start time;
- **End time**: recording end time;
- **Duration**: recording duration;
- Call party 1 and Call party 2: call participants;
- **Marked**: recordings can be marked to easily find them;
- **Tag**: it is possible to add comments or tags to the recording.



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Additional details can be configured in the *Custom fields* section.

It is possible to listen to the recording and browsing it to the desired point, thanks to the soundwave showed by the system.

Clicking on *Download*, it is possible to download locally the recording.

The download start may take a while as the recording has to be converted first.

To search for the desired recording, simply use the dedicated area.

Timezone	Europe/Rome	
From	01/12/2018 - 00:00 To	03/12/2018 - 23:59
Search		Extended time filter

The **basic search** interface allows to set:

- Timezone: select the desired timezone;
- **From**: select the search start date/time. System will show all recordings collected from this date/time;
- To: select the search end date/time. System will show all recordings collected up to this date/time;
- Search: insert here keywords. The system will search them in all detail fields.
- **Extended time filter**: this option allows to show all calls that took place in the selected time span, including calls started before the **From** field, but ended in the time span, and those started before the **From** field and ended after the **To** field.

✓ Recordings archive	
Timezone Europe/Rome	•
From 01/12/2018 - 00:	00 to 05/12/2018 - 23:59
Search	Extended time filter
	Advanced Search 🔍
Marked	Duration (s)
Database ID	Record ID
Source	Service ID
User	Тад
Caller DN	Called DN
Facility	Calling Subaddress
Called Subaddress	Redirecting Number
Connected Number	Display
Cause	Connection Point
Channel	Call Reference
Proceed TS (ms)	Connected TS (ms)
OTDI	Caller FN
Called FN	Caller eFN
Called eFN	UUS Text
eLDA (gps)	DSD Alarm
Alert Dispatcher	CHPC Mobile
CHPC Collector	Priority
Show all calls	

The **advanced search** interface, available clicking on the **Advanced Search** option, allows to set additional fields as search parameters, including all fields configured in the **Custom fields** section.

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Recordings and search results are listed below the search area, on a table providing all relevant details at a glance.

Play	back	Scenario				
				1 to	5 items of 5 Reco	ordings found 듲 🍑 10 🔻
	Cha	nnel Source	Service ID	Call Party 1	Call Party 2	Date Duration
40		100-100-100	Extended VRS	270	214	03/12 15:28:58 00:00:00
40		(e5- 199- es)	Extended VRS	270	214	03/12 15:28:43 00:00:15
40		100-100-100	Extended VRS	270	214	03/12 15:28:34 00:00:00
40		and the state	Extended VRS	270	214	03/12 15:28:19 00:00:15
40)		100-00	Extended VRS	-	-	03/12 10:27:37 00:00:01

Except for the **Date** and **Duration** fields, all other details shown in the table can be changed from the **Custom fields** section (see **Errore. L'origine riferimento non è stata trovata.**)



Please note that:

- Conference calls are reported like multiple calls in the table;
- Users can set the desired number of calls shown in a single page (10, 30, 50, 100 or 200);
- Search text fields, like *Search* or all fields in the advanced search, will match all results including the inserted value. If various fields have been filled and at least one of them does not match any result, no results will be provided in the recording table.

The icons on the left of each recording highlights recording status:

N	Recording available online, but not yet archived.
()	Recording available online and already archived.
()	Recording archived, but not available online.
\bigcirc	Recording not available.

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tions.com

4.2.2 Call Scenario

For particular needs, like post-incident analysis, it is possible to join more recordings for scenario reconstruction.

(1) 00:00:00 00:00:15 Extended VRS 270 212 214 215	Playback	Scenario					
••••••••••••••••••••••••••••••••••••							
Extended VRS 270 214 03/12 15:28:43 00:00:0 Extended VRS 270 214 03/12 15:28:34 00:00:0 Extended VRS 270 214 03/12 15:28:34 00:00:0 Extended VRS 270 214 03/12 15:28:34 00:00:0 Extended VRS - - 03/12 10:27:37 00:00:0 Gelected record details - - 03/12 10:27:37 00:00:0 15:28:19 - - 03/12 10:27:37 00:00:0 15:28:19 - - 03/12 10:27:37 00:00:0 15:28:19 - - 03/12 10:27:37 00:00:0 15:28:19 - - 03/12 10:27:37 00:00:0 15:28:19 - - - 03/12 10:27:37 00:00:0 15:28:19 - - - 0:25 0:30 0:35 15:28:19 - - - - - - - - - - - <td></td> <td></td> <td></td> <td>-</td> <td>-</td> <td></td> <td></td>				-	-		
Extended VRS 270 214 03/12 15:28:34 00:00:00 Extended VRS 270 214 03/12 15:28:19 00:00:01 Extended VRS - - 03/12 10:27:37 00:00:01 Start Ime File selected : : : : : Start Time End Time Channel Source Service ID Data0 Data0		279-538-5423					
Extended VRS 270 214 03/12 15:28:19 00:00:01 Extended VRS - - 03/12 10:27:37 00:00:00 iselected record details - 0:00 0:05 0:15 0:20 0:25 0:30 0:35 15:28:19 - - 0:00 0:05 0:15 0:20 0:25 0:30 0:35 15:28:19 - - - 0:00 0:35 0:00 0:35 15:28:19 - - - 0:02 0:25 0:30 0:35 15:28:19 - <		TARL PROPERTY AND					
Extended VRS - 03/12 10:27:37 00:00:0 relected record details 0:00 0:05 0:10 0:15 0:20 0:25 0:30 0:35 15:28:19 0:00 0:05 0:10 0:15 0:20 0:25 0:30 0:35 15:28:19 0:00 0:05 0:10 0:15 0:20 0:25 0:30 0:35 15:28:19 0:00 0:05 0:10 0:15 0:20 0:25 0:30 0:35 15:28:19 0:00 0:05 0:10 0:15 0:20 0:25 0:30 0:35 15:28:19 0:00 0:00 0:05 0:10 0:15 0:20 0:25 0:30 0:35 15:28:19 0:00 0:00 0:00 0:00 0:00 0:00 15:28:19 0:00 0:00 0:00:39 Start time End time Channel Source Service ID Data0 Data 00:00:00 00:00:15		-548-108-1-093					
acleanted record details 0:00 0:05 0:10 0:15 0:20 0:25 0:30 0:35 15:28:19 1		TARL DR. CORD					
0:00 0:05 0:10 0:15 0:20 0:25 0:30 0:35 15:28:19 15:28:19 10:00 10:00 0:00 </td <td>(0)</td> <td>101-108</td> <td>Extended VRS</td> <td>-</td> <td>-</td> <td>03/12 10:27:37</td> <td>00:00:01</td>	(0)	101-108	Extended VRS	-	-	03/12 10:27:37	00:00:01
15:28:19 15:28:19 15:28:19 Download Build Scenario Cut mixed file according to filter time interval File selected : 2 Build Show files vulio file length: 00:00:39 Start time End time Channel Source Service ID Data0 Data 00:00:00 00:00:15	elected	record detai	15				
15:28:19 15:28:19 Download uild Scenario Cut mixed file according to filter time interval File selected : 2 Build Show files udio file length: 00:00:39 Start time End time Channel Source Start time End time Channel Source 00:00:00 00:00:15 Extended VRS 270 212 214 215							
Cut mixed file according to filter time interval File selected : 2 Build Show files udio file length: 00:00:39 Start time End time Channel Source Service ID Data0 00:00:00 00:00:15 Extended VRS 270 212 214 215	15:28: Download	19 19	.I	l			
Build Show files udio file length: 00:00:39 Start time End time Channel Source Service ID Data0 Data0 10 00:00:00 00:00:15 Extended VRS 270 212 214 215	Cut mix	ed file according	g to filter time interv	val			
udio file length: 00:00:39 Start time End time Channel Source Service ID Data0 Data 00:00:00 00:00:15 Extended VRS 270 212 214 215	File selec	ted:2					
Start time End time Channel Source Service ID Data0 Data 0 00:00:00 00:00:15 Extended VRS 270 212 214 215							
(i) 00:00:00 00:00:15 Extended VRS 270 212 214 215		-		a Service	ID	Data0	Data 1
				Extended VRS	2701212		

The Scenario tab of the Playback station allows exactly to do this, selecting recordings from the list and joining them simply clicking on **Build**.

The resultant audio file will start at the beginning of the first recording and will end at the end of the last one. If between the files there is a gap, the resultant file will have no sound in this period; if the files are overlapping, the resultant file will present them overlapped.

In the example of the image above, the resultant audio file lasts 39 seconds: the first 15 seconds include the audio of the oldest recording, then there are 9 seconds of silence and, at the 24th second, there are the 15 seconds of second recording.

It is possible to create an audio file of the same length of the time span selected in the search area flagging the **Cut mixed file according to filter time interval** option. This file will include only selected recordings anyway.

Once built, the scenario can be easily downloaded clicking on the **Download** button.

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CONTROUND	OOIDL

4.2.3 Convert native or encrypted audio files

	encrypted audio files	
File	Choose File No file chosen	
Decryption key		
		Convert audio file

The **Convert native or encrypted audio files** allows to listen to files retrieved from backup paths. These files are converted from the native file format (or the compressed/encrypted file) to a standard wave file, compatible with the most common media players.

To import these files:

- identify its path and name directly on the backup archive or using the playback station search options (see 3.2.1);
- click on the *Choose file* button and select the file to upload and convert;
- click on *Convert audio file* button.



If the file is encrypted, insert the decryption key in the Decryption key textbox.

4.3 Recording export (only for supervisors and administrators)

The **Recording export** page allows to easily export single or multiple recordings to external storages for post-processing or other needs.

59 🗣
59 \
er 🗆
ect All 🔍
e Duratio
8 00:00:0
3 00:00:1
4 00:00:0
9 00:00:1
7 00:00:0
1 3

Recordings can be searched using the same search interface seen in the *Playback station* page. Simply select the recording/s from the list and select the desire storage type.

Available storage types are:

- Download: download file locally;
- Network share: download the file to the desired share folder, that can be selected from the Share
 Folder dropdown menu (new share folders can be created in the Administrator > Configuration
 > Share folders page. See [1] for further details

5.

5.1 License request

In order to use the application server, you need to request, get and upload a valid system license.

```
In the
Access the Appliance Control Panel (PDC): http://xxx.xxx.xxx.8090
Username: admin
Password: admin
```

Enter in the database section and verify that the Host IP address is the one assigned to the virtual appliance.

home	date	network	license	d	latabase
Syst	tem datab	ase configura	tion		
Host		192.1	68.0.90	Ŷ	
Port		5432		Ŷ	
DB Ver	ndor	Posts	greSQL	•	
DB nan	ne	Midal	JnifiedDB	Ŷ	
Userna	me	sa		ᢤ	C3
Passwo	ord	•••••		Ŷ	
			Set databa	ise	

Press **Set database** and wait a few minutes for the system to set the database connection settings.

Enter the license tab (see picture below)

Press Get Machine ID

			\frown				logo
nome	date	network	license	database	update	system log	backup
			\smile				
Syste	m license	2					
Machine 1	ID	Get	Maclinge ID	icense request			
Machine 1 License	ID			icense request			
	ID		ose File No file				

Download the MidaGetLicense.mmid file from the system.

The .mmid file is what you need to submit a license request; once downloaded make sure you have Internet access and click on *License request*.

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The license request form (<u>http://www.midasolutions.com/support/license-request/</u>), see following picture, shall be filled reporting all relevant information such as your name and surname, email address, phone number, end customer company name, and reseller or System integrator you prefer to involve.

LICENSE REQUEST	<i>P</i> = <i>r</i> ₄
first and Last name *	C Framework
imall *	autor and a
Phone number *	All Mida products are included in Mida eFramework app suite. It offers multiple services in a single virtual appliance
"ompany name (end customer) *	in OVA format running all services.
teseller or System Integrator name *	
Machine ID file (.mmid) * Choose File. No file chosen	
● Trial ◎ Final License type * Notes	
I authorize the processing of my personal data according to Mida Solutions Privacy Policy	

Upload the Machine ID file you just downloaded (.mmid) and specify the license type you are requesting: trial or final license. Click on the authorization flag, insert optional notes and press submit.

You'll receive immediately a confirmation email and Mida will process your request as soon as possible.

Load the license file received from Mida Solutions. The Mida License file extension is .mlic and will be provided by Mida Solutions.

network license database	update	system log	backu
Get Machine ID License request			
Choose File In file chosen			
Upload new license			
	Get Machine ID License request	Get Machine ID License request	Get Machine ID License request

Press Upload new license and then check the updated license status (see picture below).

System ID:	
Licensed Applications:	
MidaIVR	
ItsMePS :	
Web Port	
ImportMa	
Tele Pres	
Speech S	
M4M	
M4 CallFo	
M4 Exten	
M4 Phone	

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Now the VM can be accessed using any PC with a standard web browser

- 2. Appliance Control Panel (PDC): http://xxx.xxx.xxx.8090
- 3. Appliance main web portal for administration and users: http://xxx.xxx.xxx.xxx

Where:

•

- Xxx.xxx.xxx is the IP address or host name given to the VM
 - User administrator credentials to use
 - Username: admin
 - Password: admin

For further details on the Control Panel please refer to "*Mida_Appliance-Administration_Manual.pdf*", section 2.

For further details on the main platform portal and administration options please refer to "Mida_Unified_Portal-Administration_&_User_Manual.pdf".

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