Unify OpenScape Contact Center Enterprise

Atos Unify OpenScape Contact Center Enterprise V10 (R2)

Helping organizations deliver business continuity and remote worker solution across multiple contact channels, enable effective user experience and self-service and improve business decisions with actionable intelligence cost effectively and simply.

OpenScape™ Contact Center© V10 is an omni-channel integrated contact center solution for on-premise and hosted cloud environments that empower organizations to connect with customers for effective communication and collaboration while improving agent operational efficiency, customer and business engagement and ease of integration across its ecosystem at a competitive price.

OpenScape Contact Center (OSCC) delivers intelligent routing for a mid-to-large contact center, with up to 1,500 active agents on a single site. Multiple OpenScape Contact Center servers can be networked across physical or virtual sites for increased scalability of up to 7,500 active agents. Whether using inbound or outbound interactions, single-site or multi-site, or even if you want to integrate with your existing CRM system, OpenScape Contact Center Enterprise provides the capabilities you need for your contact center. You can:

- Achieve first-contact resolution with intelligent multi-platform routing and 360 degree contextual engagement view;
- Improve interaction handling efficiency with intuitive, multi-channel agent web-client;
- Streamline contact center operations with powerful management tools;
- Deploy easily with modular growth and scalability.

OpenScape Contact Center V10R2 improves on earlier releases by:

- Enabling operational continuity while giving agents device choices with the Agent Portal Web integrated softphone option. Contact centers can more easily deploy agents to work remotely with new WebRTC softphone capability
- Remote OSCC Manager support to enable operational continuity for contact center managers and supervisors
- Enhanced Contact Media Service (CMS) recording now includes recording for both OSCC and non-OSCC user recordings which expands recording capabilities and enhances broader business engagement support
- OSCC Analytics enhancement with CMS recording now integrates native CMS recording in Softcom Life of Call (LoC) for enhanced customer journey intelligence. Analytics offerings is also increased with release of full suite of OSCC Analytics solution which includes Supervisor Lite for entry level supervisor analytics capability

OpenScape Contact Center V10R2 includes features below to be released after the general availability is announced.

- Release of CMS Voice Portal delivering enhanced self-service with automatic speech recognition (ASR) and text to speech (TTS)
- Integrated video and screenshare support

Additional benefits include:

- Improved ecosystem integration REST APIs enable integration with 3rd party applications and flexible corporate web chat page configurations
- Expanded social channels communication with out-of-box support for Facebook, Twitter and WhatsApp
- Improved self-serviceability and administration with OSCC Web Manager and Web Supervisor. Improved upgrade process from major OSCC version to minor version delivers costs and time savings
- Improved digital transformation capability with full chat + AI bundle that leverages Atos Google partnership and also supports integration with other AI provider
- IT Policy and Security enhancements with improved single sign on (SAML2) authentication
- Improved deployment options with support for managed hosted Google Cloud Platform (GCP) deployment
- Unify platform support: OpenScape Voice (V9R3, V9 R4, V10) OpenScape 4000 V8R2, OpenScape Business V2 and OpenScape UC V9 R4.

For managers, the OpenScape Contact Center Enterprise Manager application offers next-generation visualization tools for contact center engagement management and reporting. This enables supervisors and administrators to reach optimum contact-center performance.

Multi-channel presence and collaboration tools can extend engagement to experts, decision makers and knowledgeable workers across the organization, as well as across off-site locations.

Atos

OpenScape Contact Center Enterprise's modularity and support for both traditional and IP-telephony, including SIP, provide investment protection and accelerated ROI. Whether the contact center is centralized, or users are distributed across diverse locations, departments or functions, OpenScape Contact Center Enterprise is designed to help improve your business operations and finances.

Agent Portal Web Integrated Softphone, video and screenshare

The Agent Portal Web is a browser-based client with a user-friendly graphic interface supporting all media channels in the contact center such as voice, callback, web chat, Email and social media contacts.

With the OpenScape Contact Center V10 R2 the Agent Portal Web client has been enhanced with an integrated (WebRTC) softphone, video and screenshare capability providing support for operational continuity while giving agents device choices. The agent can handle inbound and outbound voice and video contacts by using their computer audio and video devices.

The Agent Portal Web continues to provide support for LDAP (lightweight directory access protocol), handling of team and speed lists and the 360° customer view feature

The following benefits are also provided with the Agent Portal Web Integrated Softphone, video and screenshare capability:

- Business Continuity - Integrated softphone helps improve the agent experience by reducing application clutter on their screen.

- Reliability & Security - Built in encryption (https and voice data traffic) ensures secure communication.

- Convenience & Simplicity - Designed with installation and configuration simplicity. Simply connect to the public internet - no need for complex network setup. All Agent Portal Web features are retained.

- Cost effectiveness - Leverage the current OSCC environment. Upgrade to latest version and then connect remotely.

- Easy ordering - Integrated and easy commercial process. Ordering and installation delivered as part of existing OSCC licensing.

Agent Portal Web also includes improved agent notification to provide audio alerts to the agent when handling email and callback contacts.

The audio notification preferences such as the volume can be modified.
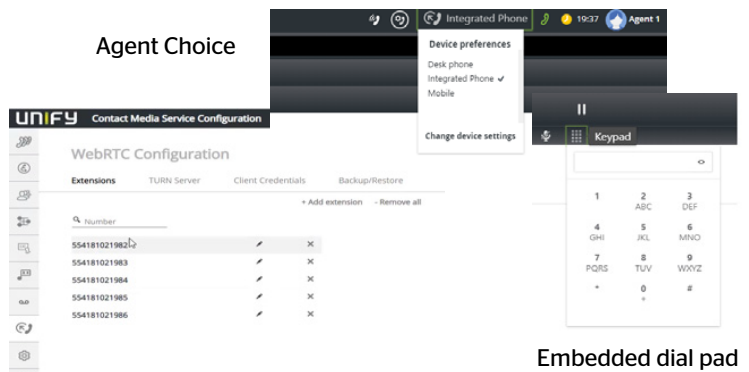

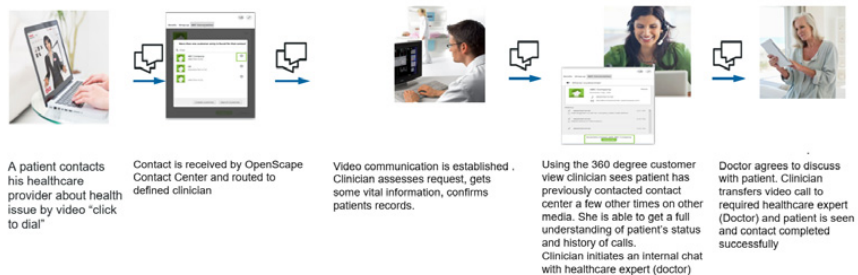Figure 1: Agent Portal Web Integrated Softphone

Figure 2: Agent Portal Web with video and screenshare support
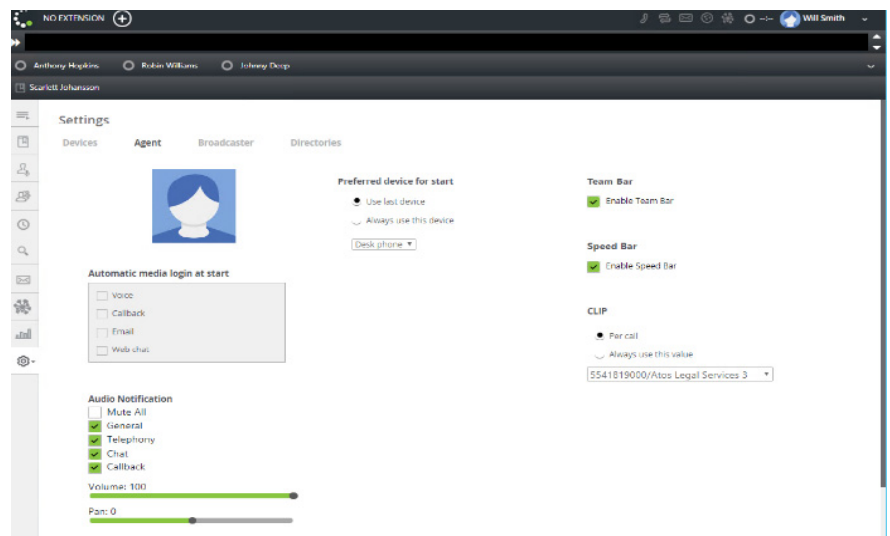

Figure 3: Agent Portal Web audio notification

Contact Media Service

The Contact Media Service (CMS) is a replacement for the Call Director SIP Service (CDSS) providing announcement and messaging for voice contacts. As of OpenScape Contact Center V10 R2, the CMS has been enhanced with the following additional capabilities:

Support for integrated Softphone

With OSCC V10 R2 the CMS has been enhanced to provide support for the Agent Portal Web Integrated softphone by offering softphone ports for use in softphone communication. The CMS works as a WebRTC server providing a gateway between WebRTC and SIP/RTP to the OpenScape Voice. Each CMS server instance can support up to 300 registered WebRTC clients and multiple CMS servers can be used to scale up to support the specified 1500 agents in an OSCC system instance. Support is currently available for the OpenScape Voice (OSV) switch platform. Support for OpenScape 4000 and OSbiz switch platforms is planned for future release.

Support for video & screenshare

With OSCC V10 R2, CMS is also enhanced to provide support for video & screenshare communication by offering video & screenshare ports. It mediates the communication between WebRTC and switch platform. This feature will be a late release of OSCC V10 R2

Support for Recording

CMS voice recording support for OpenScape Contact Center users was released with OSCC V10 R1 (FR2). With OSCC V10 R2, the CMS voice recording has been expanded to support recording of non-OSCC users to help increase choice, provide convenience and reduce cost of implementing recording solutions in the customers communication environment.

Support is only currently available on the OpenScape Voice switch platform and will be expanded to other Unify switch platforms in future release.

Recording capabilities include:
- record, search, playback and export or share agent voice conversations
- manage recording with the Web Supervisor or use mobile supervisor when mobile.

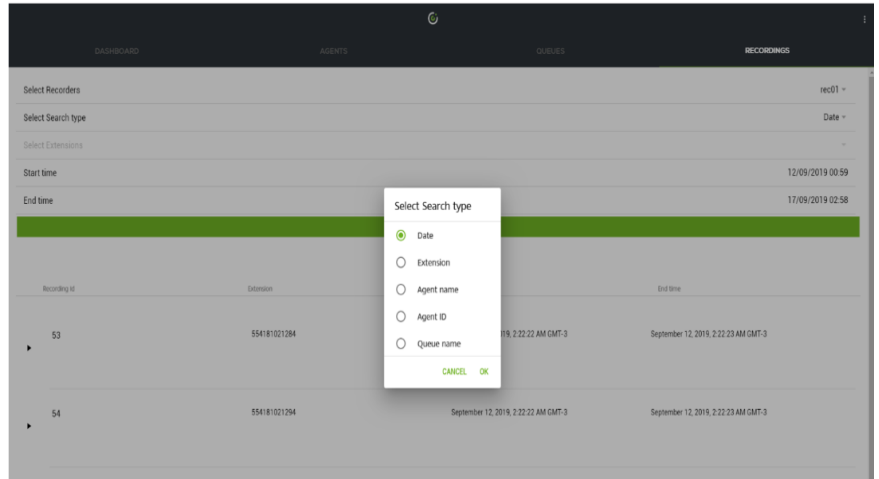An existing OSCC system must be installed in the environment to record non-OSCC users

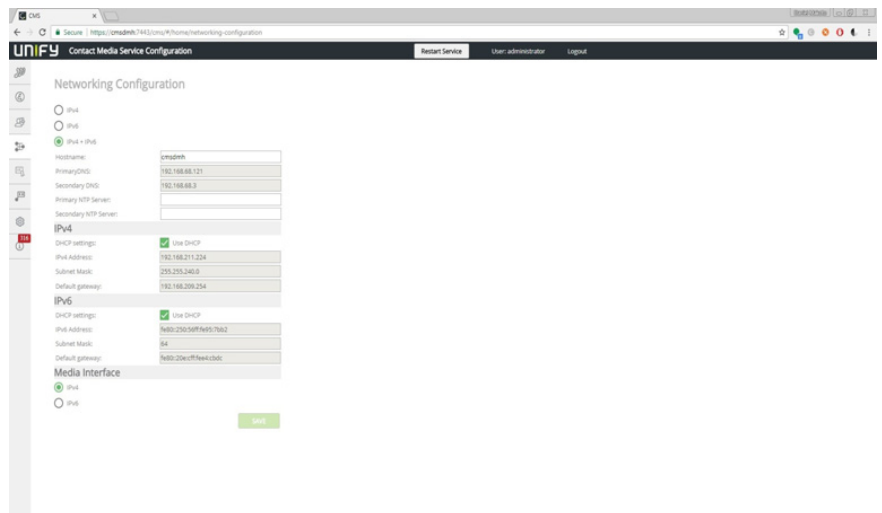Figure 4: Contact Media Service (CMS) Recorder

Figure 5: Contact Media Service

Support for Voice Portal

- The CMS Voice Portal is the new fully enabled Interactive Voice Response (IVR) providing support for Automatic Speech Recognition (ASR) and Text to Speech (TTS) capabilities as well as enabling complex voice session automated responses. The ASR and TTS capabilities are powered by Nuance speech processors. The CMS voice portal is built on the same underlying media server application and its addition expands the overall capabilities of the Contact Media Service.

The following key licensable features are available with the CMS Voice Portal.
- OSCC Enterprise V10 CMS Voice Portal session port
- OSCC Enterprise V10 CMS Voice Portal (base)

- OSCC Enterprise V10 CMS Voice Portal TTS,
- OSCC Enterprise V10 CMS Voice Portal ASR,
- The CMS Voice Portal base license is required to enable this capability.

Remote OpenScape Contact Center Manager support

OpenScape Contact Center Manager has been tested with Windows Server 2016 "RemoteApp" so contact center managers can work remotely. It enables the OpenScape Contact Center manager application appear to run on the user's desktop like a local application even though it is hosted/run on the virtualized machine at the remote location

This complements the overall OpenScape Contact Center strategy to support remote worker so all contact center users can work remotely and securely.

https://docs.microsoft.com/en-us/windows-server/remote/remote-desktop-services/welcome-to-rds

OpenScape Contact Center Analytics (powered by Softcom) enhancement

With OSCC V10 R2, CMS recordings are now integrated in OSCC Analytics Life of Call (powered by Softcom) so managers and supervisors can now:

- Listen to recording directly from customer journey trace
- Enhanced supervisor insights of agent contact handling for quality checks and training exercises

Also new Supervisor Lite (entry-level analytics) is now included in sales tools.

- Pared-down version of the full supervisor product
- Includes pre-made KPIs and dashboard of most important stats
- Easily customizable
- Set alerts, receive SMS and email notifications

A 30-day free evaluation license of Supervisor Lite is included with an OSCC V10 R2 system.

Note: The full OSCC Analytics (Softcom suite) is now added to our sales tools.

Reporting options add to existing comprehensive reporting capabilities through graphical visualizations, such as the heat map.

Support for Chat Bots

The Chat Bot (or Virtual Agent) is able to understand what a customer types, discern their intent, respond in a conversational manner, act on the customer's be-
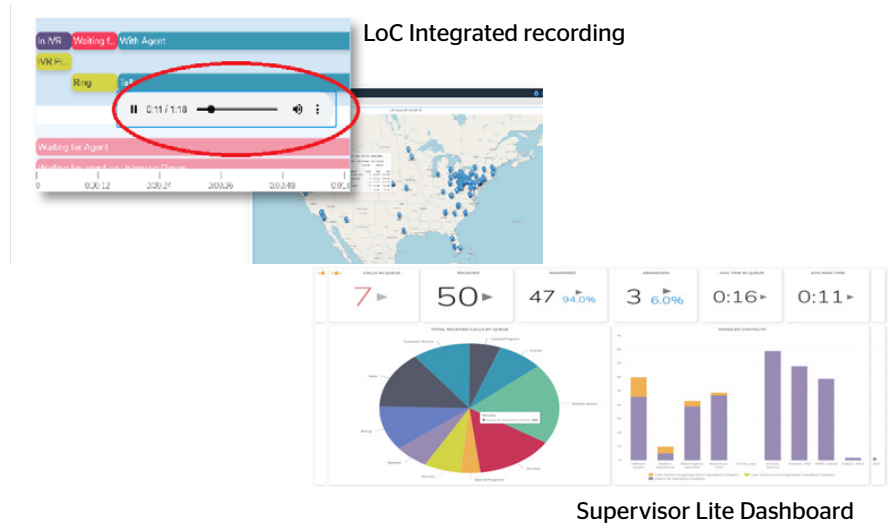

LoC Integrated recording

Supervisor Lite Dashboard
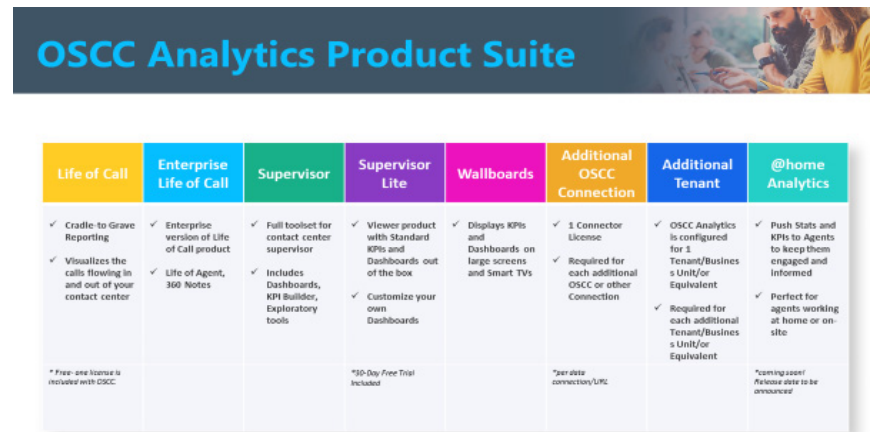
Figure 6: OSCC Analytics (LoC) Integrated Recording

Figure 7: OSCC Analytis (LoC) Product Suite

half, and help extend their self-service options.

The OpenScape Contact Center virtual agent /chatbot solution released since OSCC V9 R3 provides support for text-based conversational communication via email, web chat and social media communication with native support for Google's Dialogflow enabling Artificial Intelligence (AI) and Natural Language Processing. The solution includes Virtual Agent REST API which allows integrating the Virtual Agent with other AI/NLP provider.

Benefits include:

- Reducing average handling times as the chatbot handles routine repetitive conversations with ability to transfer to live agent if needed.
- Driving new revenue through improved online sales conversion;
- Leverage expanded Artificial Intelligence capabilities with integration to multiple vendors via the Chat Bot API interface.

OSCC supports more than one Artificial Intelligence profile per OSCC tenant. This allows chatbots to handle multiple areas of interest. For example, a profile can be configured to handle requests related to language (e.g. German or English) or could be used to assign chatbots to handle requests based on a company's departments (e.g. sales, helpdesk or returns)

REST SDK

The SDK ecosystem is enhanced with release of REST SDK capability. Previous SDK interfaces (based on COM method) will continue to be available. This new REST interfaces will expand OpenScape Contact Center capability to support current and future SDK integration methods and expose OSCC functionality to custom applications.

The REST SDK released with OSCC V10 includes support for Voice (including Events), Callback, Web Collaboration, Social Media, Agent Presence, Call, Agent, Routing Controls and Real Time Statistics. Support for Email and other business pro-

cess media functionality will be delivered in future releases.

Enable Bulk Changes of Agents' Skills

Currently managers edit each individual agent's skills to allow them handle changing business requirements; for example, during a shift change. For organizations with large number of agents this repetitive change becomes time consuming, error prone and inefficient

Managers can now implement bulk changes to agent skill sets, helping to improve reaction time and processing efficiency with the ability to:

- Edit skills, skill level and preferences for multiple agents at one time
- Export to CSV and reimport with changes, if needed.

Unified Communication (UC)/Contact Center (CC) co-existence also with OpenScape 4000 switch platform

This feature enables agents to work with both OSCC and UC applications on the OpenScape Voice and now with the OpenScape 4000 switch on the same switch extension. The agent is able to handle contact center contacts while the UC application is not in use and then switch to UC when OSCC is not in use. This will enable the use of the preferred device feature, which allows agents to use other telephony end devices (for example their mobile phone or home phone) as their contact center phones.

Improved Communication Features

Internal Chat between Agents and Supervisors

Chat between agents and supervisors can improve agent effectiveness by allowing agents to communicate with both peers and supervisors. Available in the Web Agent and Agent Portal client, this feature makes it easy to find and initiate chat sessions using the speed or team lists capability.

The supervisor or manager can manage the use of this feature by enabling or disabling permissions in their configuration
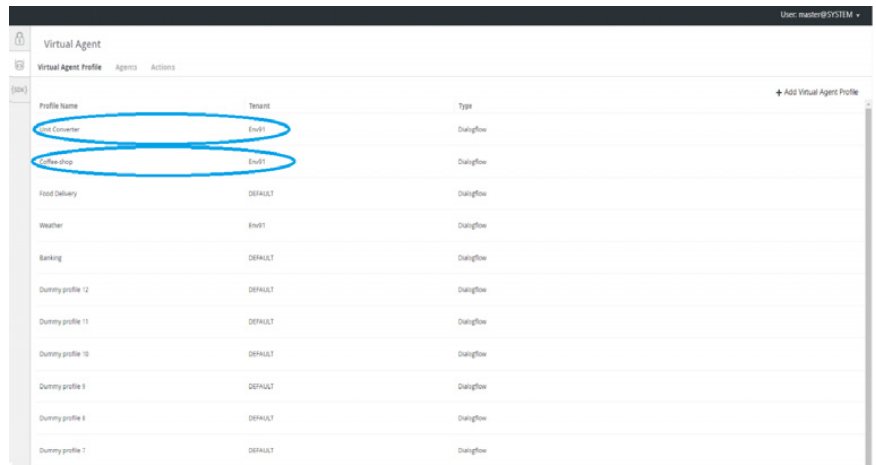

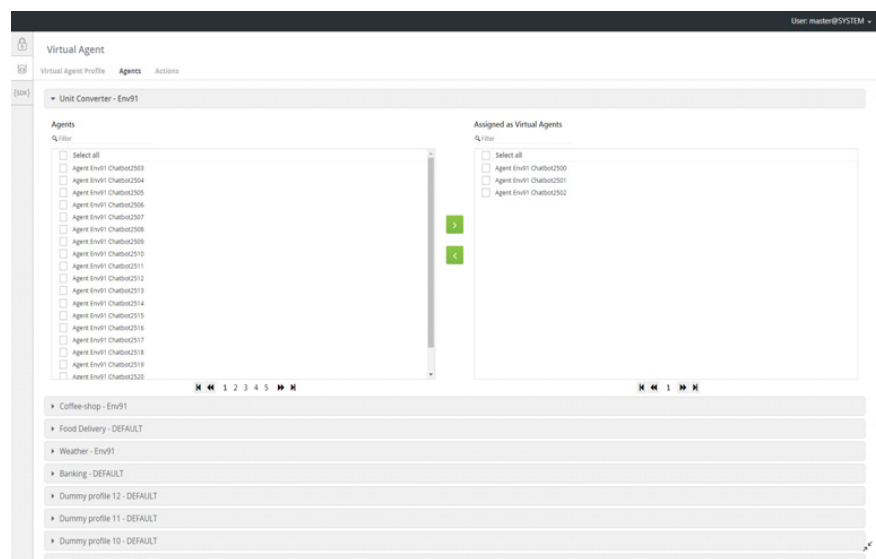Figure 8: Multiple virtual Agent Profiles per tenant
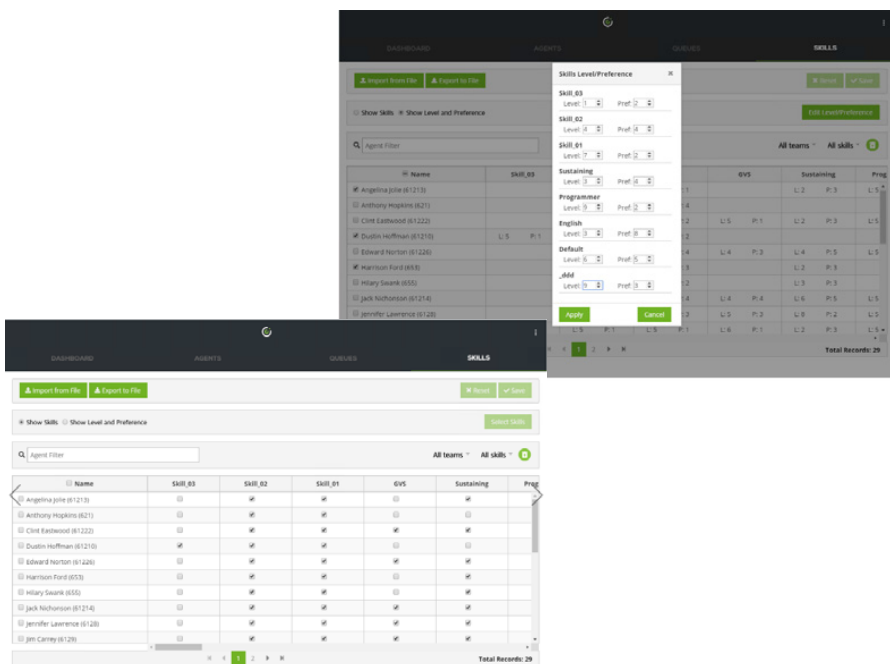

Figure 9: Assigning Virtual Agents to a profile

Figure 10: Bulk Skill changes for Agents

menu on the OSCC manager client. This chat feature is available even if the contact center is not licensed for web collaboration. An agent can initiate an internal chat with another agent, even if the peer is engaged on other calls.

"Is Typing"

The web collaboration feature "Is typing" has been implemented to improve the contact handling experience between the contact and the agent.

Currently when the agent is chatting with the customer via the Web Collaboration media in OpenScape Contact Center, there is no way of knowing if the other side is typing a new message. While chatting with a customer, an agent will now be informed that the customer is typing. Conversely, the customer will now be informed that the agent is typing. This gives a more natural conversation experience and improves customer satisfaction.

Open Media Framework

The Open Media Framework is designed to integrate media types beyond the standard media available with earlier versions of OpenScape Contact Center. In earlier OSCC releases, customers were limited to pre-defined media types such as Voice, Callback, Email and Web Collaboration. Customers are now demanding features that allow integration of other types of media. Since the OSCC V9 R1, Open Media Framework has enabled the use of other applications like Twitter, Circuit or business solutions (e.g. work ticket systems). The library of licensable preconfigured-connections will continually be added to the framework with subsequent releases.

The Open Media Framework is built on the multi-platform capability of the Open-Scape Contact Center. It is seamlessly integrated with our multi-channel capabilities, such as universal queue, routing, viewing, and reporting, which ensures a consistent customer experience across all media. Implementation of an optional 3rd party application for monitoring, filtering, sentiment analysis and aggregation will be supported via Atos/ Customer Services integrators. Access to this framework is enabled via Open Media user and Open Media Connector licenses.
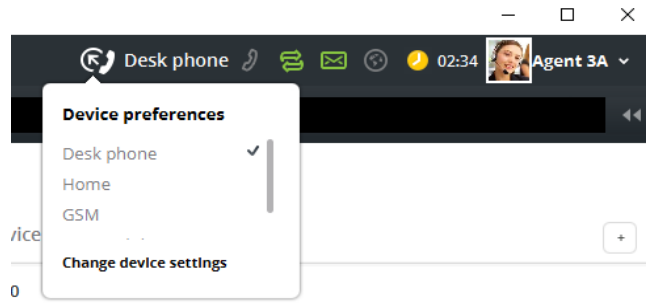

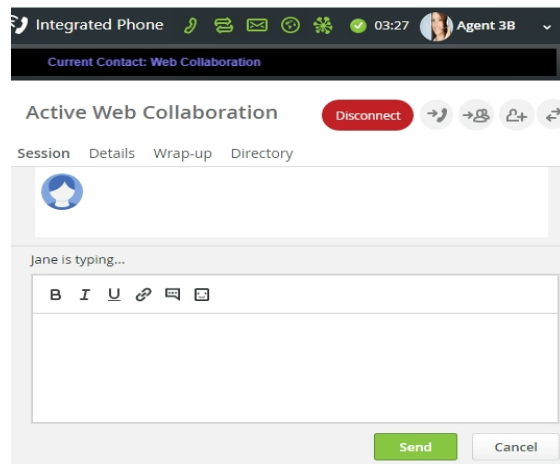Figure 11: UC/CC co-existence (showing preferred device option)

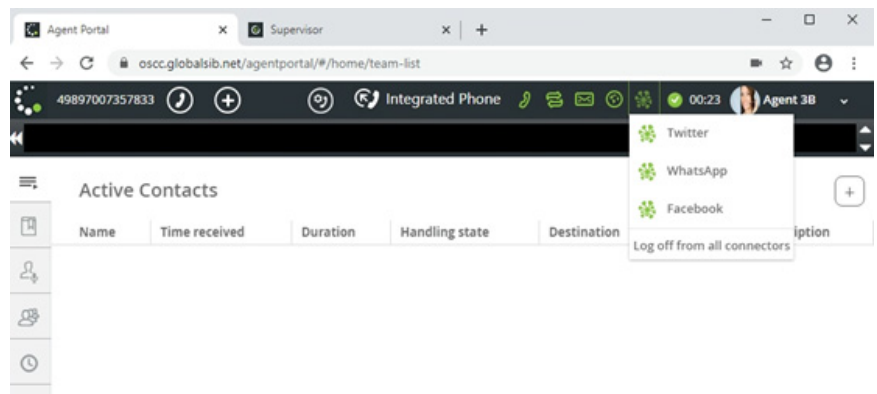Figure 12: The "Is typing" feature when using Web Collaboration

Figure 13: Open Media connector selection

Social Media Integration

Support for social media is built into the Open Media Framework, which contains an 'out of box' function for Facebook, Twitter and WhatsApp

This feature is designed to deliver an omni-channel experience ensuring seamless universal queue management, routing and reporting

Contact centers will be able to:

- Message the customer's Facebook account - both through direct message and on timeline;
- Respond to Twitter and WhatsApp messages
- Manage real-time distribution (or routing) of these messages to the contact center universal queues - the same as with any other OSCC media type
- Increase agents' effectiveness as these social media contacts are supported by the OpenScape Contact Center Multi-Contact-Handling (MCH) capability
- Include as part of overall integrated reporting - a tight integration of this media type enables seamless reporting, which leads to increased customer satisfaction and business value.

Mobility - Mobile and Web Supervisor

The OpenScape Contact Center Supervisor empowers the remote worker with flexibility and mobility on their Apple or Android devices or on a web browser. The supervisor can get information about their contact center via a dashboard view that provides a summary of contact center status, agent and queue view for agent and queue details respectively.

The agent view provides the following features:

- List of logged-on and logged-off agents;
- View agent status;
- View real-time agent status data;
- View agent details;
- Change an agent's routing state;
- Change groups /skills for agent.

The queue view provides information about:

- List of monitored queues;
- Real-time queue performance details;
- Service level status by colored icons.

The Web Supervisor extends the supervisor's mobility and access options, providing same features available on the Mobile Supervisor App on an internet browser.
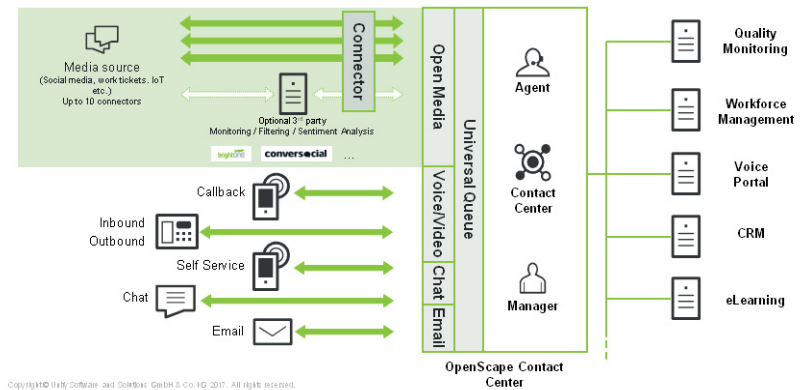

Figure 14: Open Media Framework Architecture
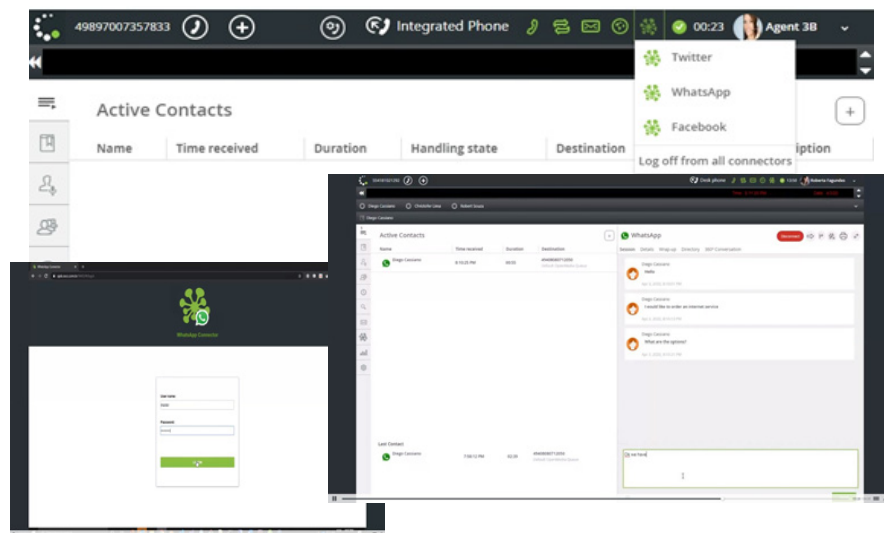
Figure 15: Agent Portal Web selecting Circuit and Twitter media

Figure 16: Mobile Supervisor Agents view

Note: The Web Supervisor is currently supported only on Google Chrome browser.

Contact Center Management

The OpenScape Contact Center management is provided by the Manager Desktop and a new Manager Web.

The new Manager Web provides a browser based interface used for configuring virtual Agents and the Artificial Intelligence environment. It is the first step to eventually move all contact center management from the previous Manager desktop to a browser based interface.

The OpenScape Contact Center Enterprise Manager desktop provides a unified and easy-to-use interface for most contact center management tasks. It is a highly visual and easily customizable console, which is organized into 'work centers' dedicated to key contact center management tasks, including:

- Administering users and resources;
- Designing intelligent multi-channel, multi-site routing strategies and queue processing flows;
- Defining and viewing real-time monitoring and historical reporting across all channels;
- Creating wallboard views and streaming 'ticker tape' content for agents' desktops.

For multi-tenant environments, the Enterprise Manager is configurable for each tenant sharing the system.

Administration Center

The Administration Center is a convenient interface for the administration of contact center users, user profiles, skills, and virtual groups. Reason codes for work and availability are also configured here. This is currently only available on the OpenScape Contact Center Manager and not yet in the Web Manager.

Using a simple point and click system, managers can assign highly flexible, permission-based profiles to users based on their different roles and functions in the contact center. These profiles can also determine which combination of channels each agent can handle, for example: voice, email, Web, outbound, callback. User templates and optional bulk uploads for multiple users can streamline the management of larger contact centers.

Skills, skill-proficiency levels, and skill preferences can be individually assigned to specific agents. By defining different skill levels to each agent, managers can ensure they maximize the use of the agent's qualifications. Skill-preference levels may reflect user preferences in contact handling,
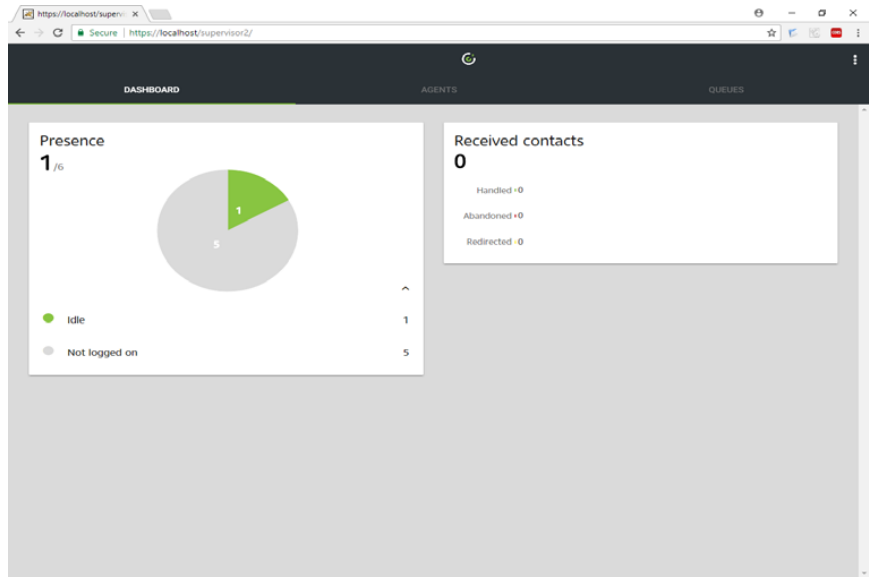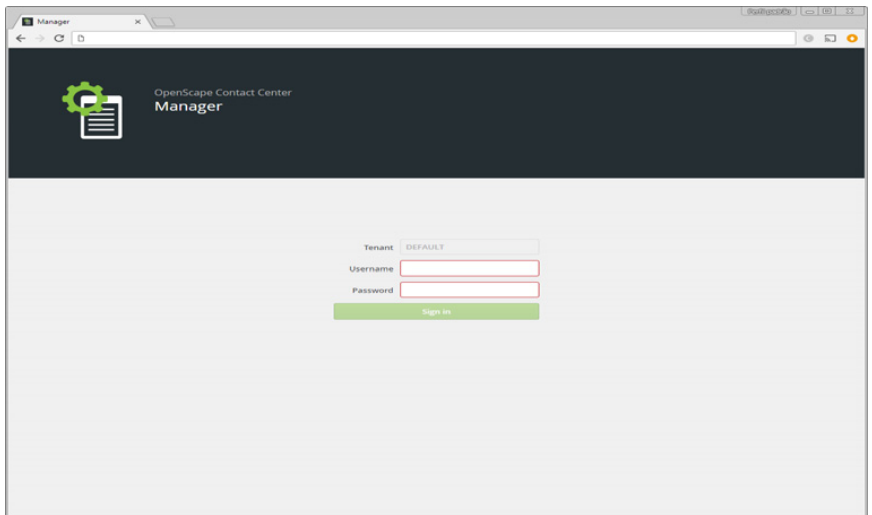

Figure 17: Web Supervisor dashboard view

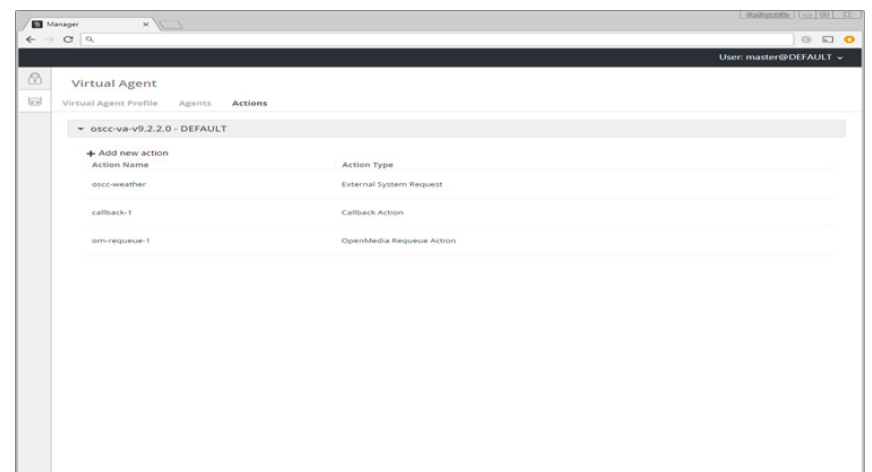Figure 18: Manager Web login screen

Figure 19: Manager Web configuration options

Trusted partner of your **Digital Journey**

thereby improving agent satisfaction. Alternatively, they can be used to account for a supervisor's preference for the agent to handle a certain type of contact to fulfill training objectives.

Design Center

The Design Center gives managers a visual, workflow-style tool, called the Design Editor for defining routing strategies and queue-processing flows for voice, email, OpenMedia and Web interactions. To streamline this process, it offers a library of configurable, and reusable, routing and queue processing components. Managers can then create and edit the flows using a drag-and-drop interface, where strategies are automatically checked and validated for completeness as they are created.

The Design Center offers components that can be used in multi-channel flows, such as:

- Time of day /day of week schedules;
- Source /destination routing decisions;
- Compound multi-site routing criteria;
- Performance level routing decisions;
- Data directed routing decisions;
- Read /write access to external databases;

- Custom components to execute virtually any routine or external application;
- The Create Callback function allows the manager user to use collected data to create a callback as part of the overall workflow processing of the contact;
- E-mail category decisions based on content analysis of the address, thread ID, subject line or body text of incoming e-mails;
- E-mail auto-acknowledgement, auto-response and auto-suggestion;
- Automatic web page and text message push for web collaboration interactions.
- OpenMedia category decisions based on content analysis of the body text of incoming social media posts/messages;
- OpenMedia auto-acknowledgement, auto-response and auto-suggestion.

OpenScape Contact Center Call Director

The OpenScape Contact Center Enterprise provides a fully integrated Interactive Voice Response (IVR) system, from a Call Director to front-end incoming voice contacts. The Call Director gathers caller requirements by prompting callers with interactive navigation menus.

Note: In OSCC V9, the OpenScape Contact Center Call Director is the system used for controlling and designing the voice responses. It is managed using the OpenScape Contact Center Manager client application. The Contact Media Service (CMS) is the replacement of the Call Director SIP Service (CDSS) and provides voice processing responses for the system. It is installed on a different machine and has its own user interface for configuration.

The OpenScape Contact Center Call Director is a fully integrated self-service and transactional call processing platform. Managers can use the Design Center's convenient drag-and-drop interface to integrate the following components into routing and queue processing flows:

- Auto-attendant with navigation menu prompts;
- Caller input digit collection;
- Messages and greetings;
- Estimated wait time or position in queue messages;
- Dynamic, multi-format 'numbers-to-speech' playback.

| Customer calls to find out about the repair status of their car in the dealership | Chooses the option to request repair status for their car from menu prompt | Customer inputs confirmation number of repair order | Determine repair status based on confirmation number through external database lookup | Playback message to the customer indicating the repair status external database lookup |

Figure 20: The Design Center with Call Director – a simple self-service scenario

| Customer calls to stop newspaper delivery for vacation period | Customer inputs home phone number | Option presented to stop newspaper delivery | Customer inputs response to select month/day for stop/restart delivery | Numbers to speech playback of customer selection to confirm | Responses are written to external database indicate customer´s requested delivery stop/restart dates |

Figure 21: Design Center with Call Director – a simple transactional IVR scenario

Multi-channel Skills-based Routing

The OpenScape Contact Center Enterprise is built on a patented, industry-leading skills-based routing engine that ensures incoming contacts are matched with the best qualified agent on a contact-by-contact basis. Skills-based routing enables your managers to optimize the use of your most valuable contact center resource: your agents. By providing the optimal balance between skill requirements and service levels for each contact, contact center performance targets can be met or even exceeded. Recent improvements now support reservation of a minimum number of multi-skilled agents for critical contacts which is an important requirement for emergency services.

With the OpenScape Contact Center Enterprise Skills-based routing option, multi-

channel customer interactions are managed and routed through a unified queue. Voice, email, web, social media, outbound contacts, and callback, as well as any other text or non text-based media channel, are intelligently routed to blended agents, which can give managers fully integrated reporting.

Regardless of channel, the OpenScape Contact Center Enterprise automatically identifies a virtual group of agents who are fully qualified to handle the contact.

Having gathered the requirements for the media channel (for example: voice, email, social media or any supported media), via an interaction through your routing strategy, the skills-based routing engine matches each contact to the best available agent.

To ensure consistent service levels, the virtual group readjusts, depending on the contact queuing time, or as the real-time performance of the contact center dictates.

To meet service level targets, even during times of higher-than-usual incoming traffic, the Performance Routing feature can speed up the pace at which the virtual group is redefined. When the definable real-time performance thresholds are met, the queue steps are automatically accelerated, so that more agents become eligible faster to handle the waiting contacts.

Managers and administrators can optimize this routing depending on which criteria they judge the most important for interaction handling in their contact center environment.

Using predefined skill-scoring schemes, an intuitive interface permits the fine-tuning of the routing paradigm by biasing the weighting of specific parameters (for example: time), choosing either by queue or agent skill preference, which will then influence the routing process.

Multi-site Networking

The OpenScape Contact Center Enterprise offers optional multi-site networking to optimize skills-based routing and load balance calls across sites. This can also provide centralized real-time monitoring, as well as consolidated reporting across all sites.

Multi-site routing strategies are fully integrated into the Design Center, providing flexible compound criteria such as schedules, service levels, and resource availability, as the basis for multi-site call distribution.

Multi-tenancy

The OpenScape Contact Center Enterprise multi-tenancy function allows you to create separate business units within your enterprise to securely and independently co-exist on a single contact center system. This tenant self-administration system enables each individual 'business unit' to manage its own contact center.

Multi-tenancy is the ideal configuration for managed service providers, outsourcers and distributed multi-business unit enterprises that want the cost savings and increased control of consolidating their call centers in one convenient virtual contact center platform.

Reporting

The OpenScape Contact Center Enterprise provides reporting via the OpenScape Contact Center Analytics, including 'Duration of Call' reporting (powered by Softcom) by the Report Center in the OpenScape Contact Center Manager.

Manager Report Center

The Manager Report Center runs on a customizable, visual reporting engine which can display a virtually unlimited number of real-time, cumulative and historical reports for all channels. The flexible interface makes tailoring specific reports or formats easy, without the need for an external report writer. The Report Center can provide insight into your contact center operations, allowing for better operational monitoring, more effective decision making, and the ability to proactively spot patterns and respond, before problematic issues arise.
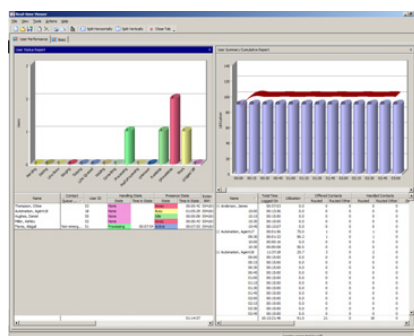

Figure 22: The Report Center – a real-time view

Real-time and Cumulative Reporting

Real-time and cumulative views are refreshed continuously, presenting key information such as agent utilization, service levels, abandon rates and average handling time for all licensed media (voice, email, web, callback, social media, text or non-text-based media) interactions.

A built-in analytic model uses actual data trends to predict performance patterns and contact volumes in real-time, improving decision-making regarding staffing resources or contact routing.

Real-time thresholds and alerts are easy to define, and are able to provide audio and visual notifications to a manager when definable operating metrics are exceeded.

Activity Logs

Detailed, searchable activity logs (see figure 19) allow managers to examine the step-by-step progression of any customer contact, or review the detailed activities of an agent for all channels throughout the day.
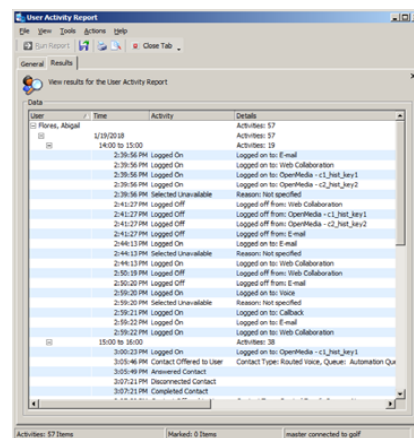
Figure 23: Multi-channel User Activity Report

Historical Reporting

Historical reports can be created quickly simply by pointing and clicking to select data elements and report parameters. Managers can choose from a comprehensive range of statistical values for blended or channel-specific reports, for example by user, group, queue, contact type, or site.

The Report Center provides graphical, as well tabular, historical reports. Displaying historical reports in OpenScape Contact Center Enterprise's Report Viewer allows managers to adjust the report output even after the reports have been run. They can re-order and re-sort content, as well as tailor the level of detail required. Multiple reports can be opened in the Report Viewer concurrently, and are accessible with just one mouse click.

Reports can be viewed on-demand or scheduled to run on a daily, weekly, or monthly basis. Additional output options include email, printing, or content export to Excel, HTML, PDF or text file.

Figure 24: Report Center – Historical Report Viewer

Broadcast Center

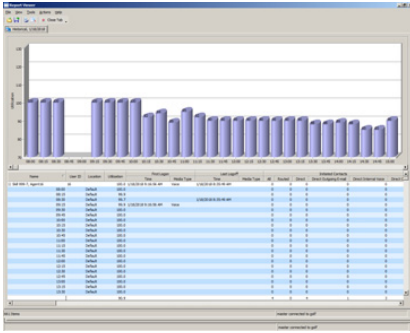The Broadcast Center offers a fully-integrated interface for defining rules-based streaming statistics for wallboards, as well as ticker tape views for the agent desktop or external plasma displays.

With the integrated Broadcaster, real-time statistics and performance data for all channels can be streamed selectively to any agent's desktop.

Managers can configure rule-based thresholds for wallboard or broadcaster views, to alert agents visually of changes in the operational conditions of the contact center.

Easy-to-define distribution lists for broadcaster views ensure that the relevant data is sent to a selected group of recipients.

Agents – Empowered for improved contact quality

Agents have access to the Agent Portal (java) or the Agent Portal Web client. The OpenScape Contact Center Agent clients provide tools and information for handling multi-channel interactions more efficiently while enhancing customer service experience.

Agent Features include:

- A fresh new look with intuitive, blended desktop for multi-channel contact handling;
- Support for open media connectors (including icons and tooltips for related Open Media items);
- Ease of deployment – the agent's software will be updated each time it is used;
- Real-time statistics and personal performance data are presented in a single window;
- A 360 degree feature which will enable the entire contact history of a customer to be viewed;
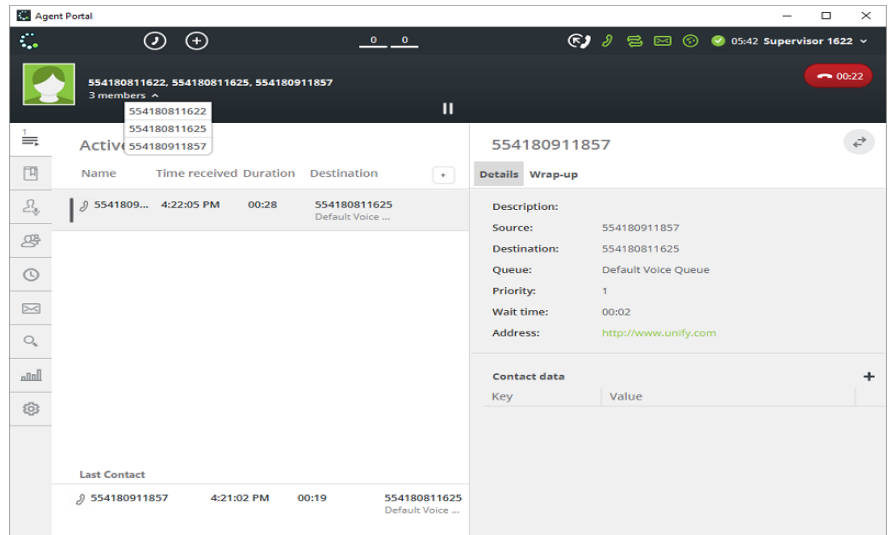 - Contact history is across all channels
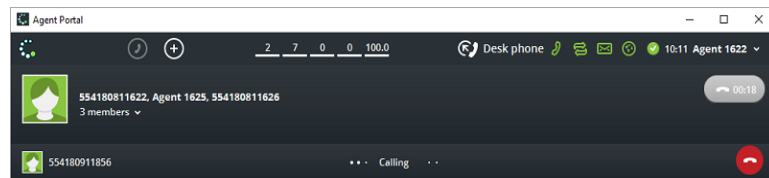

Figure 25: Agent: contact handling

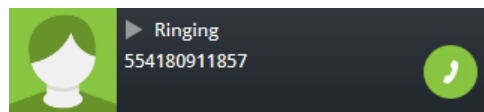Figure 26: Outgoing and incominc voice call

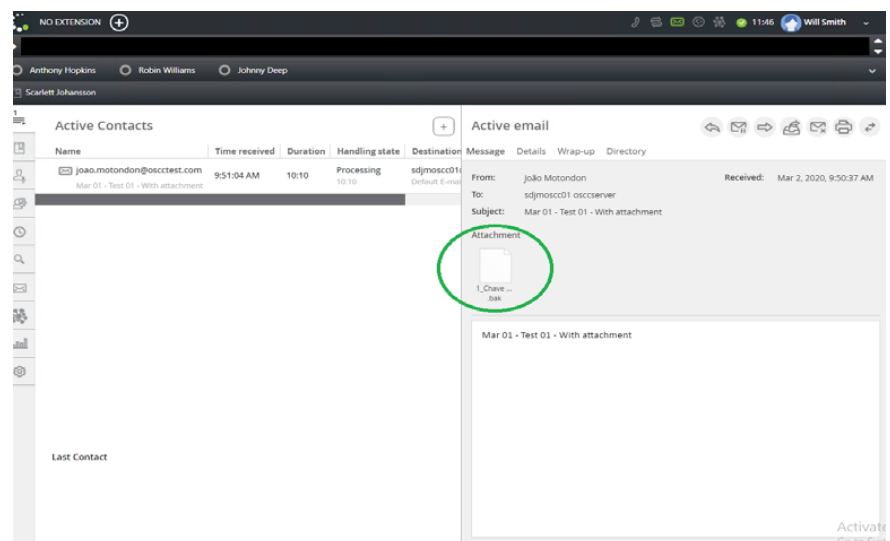Figure 27: Agent notification pop-up for incoming voice call

Figure 28 Agent: Email handling with email attachment

- Agents can add individual contact data;
- Unique presence and collaboration tools to drive first-contact resolution;
- A visual 'Contacts Waiting Indicator' for all channels;
- Availability status and wrap-up reasons which can be reported on.

Voice Handling (Inbound, Callback, Outbound)

A full set of telephony controls and tools can now streamline the handling of incoming calls. In addition, callback or outbound calls can be created by the agent, after either being generated from a campaign list, or requested by the customer using a web-based interface.

A 'Create Callback' component enables managers to use collected data to create a callback as part of a routing strategy or queue-processing flow.

The agent receives a screen pop-up on the desktop which shows customer data and contact details synchronized with the arrival of all interactions.

A built-in interface to third-party or in-house CRM systems can be used to automate customer file retrieval for display on the agent's screen.

OpenMedia Handling (including support for Social Media)

The OpenScape Contact Center OpenMedia capability enables support for handling all kinds of media including social media like Facebook, Twitter and WhatsApp. An agent has choice of selecting the Open Media channel that will be connected from the OpenMedia connector list.

Contacts for the selected connector is made available to the agent for handling after selection.

Email Handling

With OpenScape Contact Center Email, the Agent Portal and Agent Desktop clients can offer tools to handle incoming and agent-initiated email interactions in both HTML and Plain Text format. A screen pop-up (figure 24) will be displayed for routed email contacts, which can track internal, as well as external, email forwarding and consultation. This enhances responsiveness and expedites resolution. To further streamline email handling, agents can now receive auto-suggestions based on email subject matter. Alternatively, they can use text modules, choosing from a library of selectable email templates.

The email history tool provides a range of search criteria which can track the progress of interactions and search within existing email threads. This will enable agents and managers to understand the sequence of interactions, leading to a satisfactory resolution.

Agents can reach out to customers by initiating new emails. For determining the success of an email campaign or the reactivation of customer relationships, agent-initiated emails and related replies can be tracked and reported on. Information can also be emailed to a caller even while on a call or web collaboration session, improving the quality of customer service, and reducing the need for later follow-up actions by the agent.

Web Collaboration Handling

The OpenScape Contact Center Web Collaboration feature is a fully integrated solution for effectively handling real-time customer dialog online, while leveraging agent clients. With the OpenScape Contact Center Web Collaboration feature you can automatically categorize, route, and queue live web interaction requests. This establishes a session which allows customers and agents to communicate in real-time via web text chat, screen-sharing, or simultaneous voice communication.

To speed up interaction times, the agent can choose text from a stock of ready-made content, as well as linking web pages directly from a selection, so that these items instantly appear in the customer's browser. This allows the agent to synchronize the customer's browser to specific content. Each web interaction and transcript will be stored in the server database.

Callback Handling

If your contact center is restricted to handling inbound customers, you may be missing opportunities to enhance customer relationships, as well as getting the full use of your agents. OpenScape Contact Center Callback helps you to fully leverage your contact center investments by providing a blended-agent desktop, which can handle inbound calls and callbacks. This helps optimize agent productivity by providing a more balanced contact volume for agents throughout the day.

If required, your agents can also make sure that customer interactions are followed up on by defining callbacks. A web interface enables your customers to request callbacks at a time convenient for them. OpenScape Contact Center Enterprise also provides built-in functionality to automatically create a callback if a customer has hung up while waiting to speak to an agent.

Outbound Call Handling

With the OpenScape Contact Center Outbound option, managers can automatically import call lists for up to 10,000 outbound calls. Outbound calls are routed to agents according to their skill-set and availability, to pursue campaigns or make one-to-one marketing calls during times of lower incoming traffic. Outbound calls can also be used for customer surveys.

Real-time and cumulative views will enable managers to monitor outbound calling activity and campaign status in real-time.

Historical reports for outbound interactions allow for the documentation of outbound campaigns or outcome of customer survey calls.

Unique Presence and Collaboration Tools

To help drive first-contact resolution and responsiveness, agents can use the Team List and Team Bar features to view real-time presence and the availability status of their peers, managers, or even experts, outside the contact center. Available users can be included in a call transfer, consultation, or conference, with just a single mouse click.

Detailed presence and availability information is displayed for all channels, so that agents can easily find the right person to collaborate with, as well as being able to resolve voice, email, and web contact issues in real-time.

Using Presence Tools to Drive First-Contact Resolution

The OpenScape Contact Center Enterprise offers unique presence and collaboration tools, which can extend the customer service community even further:

- Agents in the contact center can observe the availability of their peers, experts, and supervisors;
- Home-based agents and users in remote locations will be visible with real-time presence information;
- Experts, decision makers or knowledge workers anywhere in the business can easily be made available when required;
- The availability of business users can automatically be controlled by the system (e.g. by displaying a talking, logged off, available status), or the user can select a 'specific reason caption' (in a meeting, at lunch, working on research, etc.)

Beyond the formal contact center, there are many people who may be able to help resolve customer situations: knowledge workers, experts, back office personnel, sec-

ond level support or account managers. Their availability status may need to be visible to the contact center agents and accessible for collaborating on customer issues or opportunities as they arise.

The agent's desktop provides the Team Bar and Team List features. These innovative real-time presence and availability tools visually track and display the availability of other users, regardless of their physical location. Even agents in remote locations, such as home-based or roaming agents, are as easy to collaborate with as a colleague located in the next room.

Evolve to IP with investment protection

Users in the Team List can be sorted and displayed by job role, department, group or current availability status by field, making the location of the appropriate user easily available.

The optional, non-intrusive Agent desktop provides a streamlined user interface, while still being tied into the routing and communication framework of the contact center.

This desktop feature offers 'soft phone' productivity tools as well as streaming real-time contact center statistics, and the ability to monitor the presence and availability of other users within the OpenScape Contact Center Enterprise system.

Contact Center Scenarios Using Presence and Collaboration

When the need for assistance arises during a customer interaction, the agent can engage the right person on the first attempt.

Example 1:

- Problem: An important customer has a complex technical question, requiring immediate resolution.
- Solution: The answering agent uses the Team List to locate and conference in an available expert at the remote office.

Example 2:

- Problem: A loyal customer calls the sales team asking for a questionable service charge to be removed from their bill.
- Solution: Using the Team Bar, the answering agent quickly identifies an available supervisor on duty, who can authorize the removal of the service charge in real-time.

Evolve your Contact Center to IP with Investment Protection

The OpenScape Contact Center Enterprise is designed for traditional (TDM), hybrid, or pure-IP Telephony environments.

This enables you to evolve to a completely IP-enabled contact center when you are ready, while protecting your investment with infrastructure independence. OpenScape Contact Center Enterprise's flexibility in converged environments allows for the deployment of individual IP agents,

whenever and wherever needed, independent of their physical location.

Due to the power of OpenScape Contact Center Enterprise's skills-based routing engine, home-based agents, branch offices or remote locations are seamlessly tied into the routing strategies of your contact center. Distributed users can be deployed with IP soft clients or IP phones.

To drive first-contact resolution, mobile solutions with voice over wireless LAN end-user devices can be leveraged to untether enterprise users, while still allowing them to collaborate on incoming calls. Presence and availability information for mobile decision makers, subject matter experts, and remote users, will enable your agents to collaborate with any user participating in the virtualized contact center.

OpenScape Contact Center Enterprise CRM Ready Integrations

To streamline integration with your CRM systems, OpenScape Contact Center Enterprise offers the following optional CRM integrations:

CRM Ready Integration for SAP

The certified integration for SAP ICI provides a single, unified desktop with screen pop-up and CTI functionality, fully integrated into the SAP interface. It enables personalized customer service through automatic customer identification. It also allows intelligent routing of customer voice calls and emails to the best available agent based on skill-set, job role, subject knowledge, customer data, or business rules, from mySAP CRM.

CRM Ready Integration for Siebel

The validated OpenScape Contact Center Enterprise integration with Siebel 7.8 provides a unified agent view and desktop with embedded telephony controls. Agents receive a screen pop-up for each incoming customer call. To ensure optimal handling, customer needs are matched to agent qualifications based on OpenScape Contact Center skills-based routing and Siebel business rules.

Microsoft Dynamics CRM

Screen pop-ups with Microsoft dynamics CRM are included at no extra cost in OpenScape Contact Center V9. Customer records are identified and retrieved based

on caller ID or IVR inputted digits, and automatically forwarded to the agent.

Ensure Business Continuity with System Redundancy

The risk of any potential system failure can be effectively managed with the Opencape Contact Center standby redundancy function. From resilient equipment to geographical split site support for full disaster recovery, this solution can be configured to meet your needs. It ensures that not a single call, e-mail, or callback is lost; that full reporting is assured even across networked nodes; and that administrative overheads are minimized through transparently synchronized add-ons, moves, and changes. All this keeps your business running, and your customers satisfied, even when problems occur.

Support for business continuity is further enhanced with the newly released support for Agent Portal Web Integrated Softphone that enables agents to work remotely with an internet connection available at the remote connection.

Simplify Integration with the OpenScape Contact Center Enterprise SDK

Sometimes, your unique business requirements need tailor-made application integration or extensions. Unify recognizes the need to extend contact center capabilities, and to integrate with existing front and back office applications while managing IT budgets and the costs of customized development.

OpenScape Contact Center Enterprise's optional Software Development Kit (SDK) facilitates complete integration with other applications, like in-house or 3rd party

CRM applications, as well as customized application development. The SDK helps to reduce costs, and to ensure the rapid development of customized solutions for the contact center, by offering well-documented and supported programming interfaces. With OSCC V9 R3 the SDK is now also available with REST API interfaces.

OpenScape Contact Center Enterprise V10 R2

System Features

- Contact Media Service (voice processor, voice portal*, recorder, integrated softphone, video & screenshare*);
- Support for OSCC Manager for remote use (with Windows RemoteApp)
- Enable Bulk Skills changes for Agents
- Audio notification: for chat and for callback
- Enhanced Web Chat with integration via REST API for flexible corporate web page design, configuration and implementation
- Support for Contact Line Identification Presentation (CLIP)
- Enhanced REST SDK interface to include Realtime Statistics (on top of earlier supported voice, callback, Open Media and web chat support)
- Agent Portal Web Softphone enabled by Circuit
- Chat Bot (virtual agent) with integration support for Google Dialogflow
- Security enhancements
    - Single sign on SAML 2 authentication support
    - Password encryption
    - Update of hardcoded password type
    - Support for email TLS 1.2 encryption
    - Support for WCAG (2.0 AA) -accessibility for disability.
- Open Media Framework - support for social media platforms including Facebook, Twitter and WhatsApp (and up to 10 media platforms).
- OpenScape Contact Center Analytics Life of Call (customer journey analytics) - included in our Base License; Full Softcom analytics suite available in sales tools
- UC/CC co-existence on OpenScape Voice (OSV & OS 4000);
- Advanced skills-based routing for voice, e-mail, web collaboration, outbound calls, callbacks, and open-media connector media;
- Improved security and serviceability;
- Integrated database;
- Wall-board support;
- CTI integration;
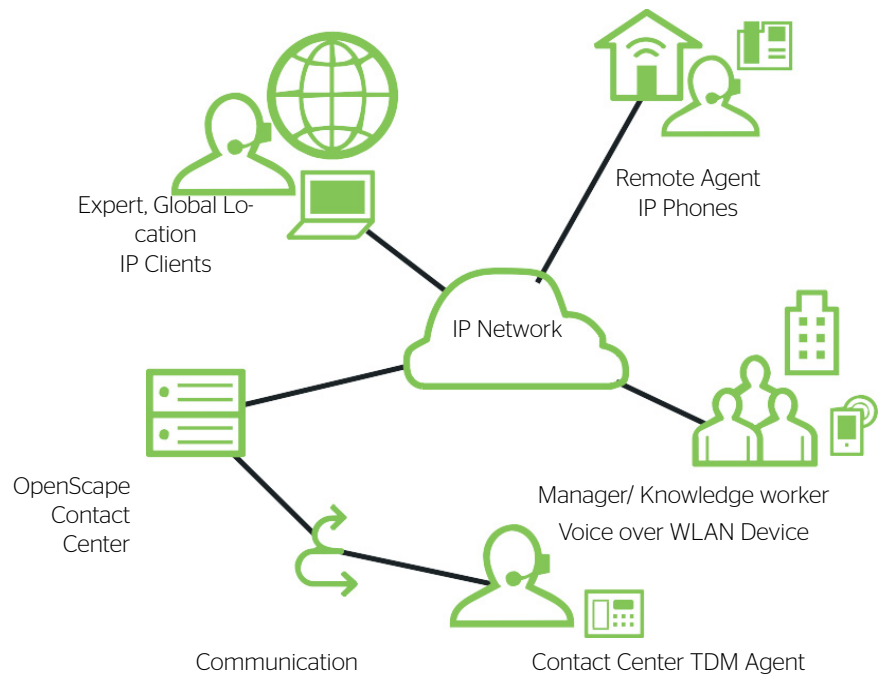- Multiple language and time-zone support;

Figure 29: Evolve to IP with investment protection

- Data management server with configurable retention periods for reporting, e-mail and Web collaboration;
- Supports IP-Telephony, converged or TDM (circuit-switched) platforms;
- LDAP support.

* CMS voice portal (support for Speech recognition and text-to-speech) and video & screenshare are late releases of the OpenScape Contact Center V10 R2

Manager Desktop

- Users, skills, virtual groups, queues, and data source administration;
- Design of contact processing flows, routing strategies, queue processing, and related capabilities for all media platforms;
- Monitoring, reporting, alerts, and notifications, using real-time and historical infographics;
- Rules-based, streaming broadcast capabilities for wall-boards, client desktops, or client-connected plasma displays;
- Telephony platform synchronization and related capabilities.

Web & Mobile Supervisor

- The Web Supervisor provides mobility and browser access with the same features as the Mobile Supervisor;

- The Web Supervisor supports Google Chrome browser. Support for other browsers will be announced at a later date;
- The Mobile Supervisor empowers the remote worker with either Apple or Android device access;
- Provides a quick summary, as well as real-time agent and queue status;
- Accesses more detailed agent status information, and changes routing status of agent;
- Supervisors can add or remove skills in an agent's profile.

Agent Portal Web

- Integrated Softphone
- Video & Screenshare*
- Supported on Google Chrome, MS Edge, and Firefox Mozilla browsers;
- Support for disability Accessibility (WCAG 2.0 AA)
- Integrated 360° customer view consolidating all channels into one historical catalog;
- Blended multi-channel agent client (incoming voice, email, web, outbound / callback, social media Facebook, Open Media channels [up to 10]);
- Chat between agents and supervisors;
- "Is Typing" chat feature;

- Unique multi-channel presence management and collaboration tools;
- Full desktop telephony controls, plus click-to-dial speed dial, directory, multi-channel contact log;
- Contact details screen pop-ups;
- Work and availability reason codes;
- Wrap-up codes assigned to queues;
- Visual, channel-specific Contacts Waiting indicator;
- Real-time statistics and personal performance data;
- System tray icon mode;
- Customizable launch pad with 'cut and paste' toolbars;
- Optional streamlined Associate desktop;
- Presence integration - show UC status;
- Broadcaster 'ticker tape';
- Fully configurable Hot Key support;
- Taskbar - show team;
- Web Collaboration - co-browsing via URL Push;
- Callback - managing appointments;
- Resend historical e-mail message
- Video & screenshare are late releases of the OpenScape Contact Center V10 R2 (will be delivered in future OpenScape Contact Center releases).

OpenScape Contact Center call Director (optional)

- Integrated IVR;
- Call menu prompting;
- Caller input digit collection;
- Multi-format numbers to speech playback;
- Read/write access to external databases;
- Dynamic passing of call data to agent application;
- Intelligent announcements in queue (e.g. expected wait time);
- Contact Media Service (CMS) supporting up to 300 sessions;
- Full routing design integration.

OpenScape Contact Center Networking (optional)

- Load balancing and call distribution for up to 5 sites (7500 active agents);
- Flexible, multiple distribution criteria;
- Centralized monitoring and reporting;
- Multi-site routing strategies fully integrated into Design Center flows

OpenScape Contact Center Multi-tenancy (optional)

- Single-license deployment of multiple business unit entities with up to 1,500 active agents on one OSCC server;
- Separate administration and security;
- Separate design and routing;
- Monitoring and reporting;
- Support of multiple time zones;
- Enhanced security permissions for manager and supervisor at the business unit level.

OpenScape Contact Center Open Media – Social Media (optional)

I. Social Media

- Social media integration (Facebook, Twitter and WhatsApp all available out of box);
- Native support for these social media applications is enabled by pre-built Open Media Connectors
- These social media applications are tightly integrated in the contact center and include support in the OpenScape Contact Center universal queue management, routing, and reporting ensuring an omni-channel experience for users.

II. Other Media

- Open Media framework enables integration with other business process applications that require intelligent routing or distribution of text-based objects. Such objects include routing of ticket from ticketing systems or alert objects from monitoring systems.
- Open Media framework also supports non-text media objects such as audio and video media types. The intelligent

routing of this objects is handled by OpenScape Contact Center while the actual transmission of the media payload is handled external to OSCC.

OpenScape Contact Center Email (optional)

- Automatically analyze, categorize and route incoming email;
- Show emails with attachment in reoprt view, add attachment clip at top of email message;
- Support for multiple email servers;
- Intelligent auto-acknowledgment, auto-response capabilities;
- Library of configurable text templates;
- Intelligent routing and queuing based on agent skills profile and blended queue;
- Fully integrated into Design Center flows and the Agent Desktop client;
- Support of HTML and Text formats.

OpenScape Contact Center Web Collaboration (optional)

- Real-time text chat, linked browsing, and web page forwarding;
- Library of configurable text templates and push URLs;
- Intelligent routing and queuing based on agent skills profile and blended queue;
- Fully integrated in Design Center flows and the Agent Desktop Client.

OpenScape Contact Center Callback (optional)

- Blends callbacks with inbound traffic;
- Preview Dialer fully integrated with the Agent Desktop client;
- Agent-initiated and web-requested callbacks;
- Customer-requested callback in routing strategy, or while waiting in queue;
- Automated creation of callback on call termination while in queue;
- Intelligent routing and queuing based on agent skills profile and unified queuing.

OpenScape Contact Center Outbound (optional)

- Import of outbound dialing campaigns from externally generated lists;
- Upload up to 10,000 contacts into the campaign manager;
- Intelligent routing and queuing based on agent skills' profile, and blended inbound /outbound queue.

OpenScape Contact Center CRM Ready Integrations (optional)

- Pre-built, certified CRM desktop integration with mySAP CRM and SAP ICI;
- Pre-built, validated CRM desktop integration with Siebel.

Software Development Kit (SDK) (optional)

- Updated with new REST API architecture;
- Enables integration with existing or custom application development;
- Exposes OpenScape Contact Center system variables and statistics to other applications for custom integration;
- Enables access to user presence information for custom or third party applications;
- Monitors and exposes agent and channel state information via APIs.

System Capacity

- Defined Users per System: 6000
- Active Agents per System: 1500[1]
- Managers per System: 180[2]
- Maximum number of systems: 5
- Total number of agents across systems: 7500
- Maximum # of Skills: 1000
- Maximum # of Queues: 2000

Note: For updated supported software and hardware information please reference the OpenScape Contact Center release notes.

Software Platform

Server

- Windows Server 2012 Standard Edition
- Windows Server 2012 Datacenter Edition
- Windows Server 2012 R2 Standard Edition
- Windows Server 2012 R2 Datacenter Edition
- Windows Server 2016 Standard Edition
- Windows Server 2016 Datacenter Edition

Client

- Windows 7 Professional or Enterprise Edition (32 bit and 64 bit)
- Windows 8 and 8.1 Professional Edition
- Windows 8 and 8.1 Enterprise Edition
- Windows 10 Professional and Enterprise Edition

Virtualization

Support for VMware V5.5, V6, V6.5 and V6.7

For OpenScape Contact Center Email

- Microsoft Exchange Server 2007, 2010, 2013 (and Office 365), 2016
- IBM Lotus Domino 9
- Google G Suite (Gmail)

For OpenScape Contact Center Web Collaboration

- Microsoft Internet Information Server (IIS) 7.5, 8.5, 10
- Apache Tomcat v7.0 and v9

SAP CRM 7.0 with the SAP ICI interface version 3.07

Note: The support for SAP CRM 4.0, 5.0 and SAP CRM 2007 (6.0) continues unchanged as the interfaces for SAP CRM 7.0 are backwards compatible.

Support for TrendMicro Antivirus.

Server Hardware Platforms[3]

- Two Intel Xeon E5-2609v2, 8GB RAM, 1 TB HD SATA, 1GBps Ethernet, 16x DVD-ROM, recommended

Supported Communication Platforms

- OpenScape Business V2
- OpenScape 4000 V8 R2
- OpenScape Voice V9R3, R4, V10

Standard Pre-Integrations

- Microsoft Dynamics CRM screen pop-ups
- XML interface for Work Force Optimization (e.g. Verint)
- Spectrum Wallboards
- LDAP Directories

Standard Interfaces

- CRM screen pop-up API
- Third party IVR API (HPRI)
- Voice XML, ODBC, SQL
- LDAP
- REST SDK
- Custom function component

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1. communication platform dependent
2. system configuration dependent
3. System configuration and load dependent

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