Can be called from mobile phones and PHSs. Closed on weekends, public holidays and New Year period.

Inquiries regarding Arcstar UCaaS changes. I believe that providing services that the users will "When devices change, the way of using them also themselves in order to streamline or manage their own for example by installing applications onto their devices with greater independence and initiative in their work, working style is an issue for the future, but the fact that we are starting to see cases of individual employees acting with greater independence and initiative in their work, for example by installing applications onto their devices themselves in order to streamline or manage their own work, is a large accomplishment." "When devices change, the way of using them also changes. I believe that providing services that the users will like is the key to changing the working style, for example by creating a communication tool similar to the consumer IT, LINE(*) which employees are already familiar with, or by using devices in a secure work environment which is robust enough for company use. Of course, we have asked NTT Communications for proposals regarding innovative ways of working and using devices," said Mr. Hamamoto.

"We want to construct a unified environment that incorporates new functions which will allow employees to switch to a more dynamic and creative working style, and which will stimulate communication and collaboration among our employees. We always take the position of a challenger, quickly adopting whatever we find that is good, using it ourselves, and then expanding its use throughout the company. Eventually we want to provide strong IT support not only for communication between employees and organizations, but also communication with outside customers and stakeholders," added Mr. Hayashi.

(*) LINE: Instant messaging application with various stickers

Case Study

Introduction to Arcstar UCaaS

Arcstar UCaaS (Unified Communications as a Service) is a cloud-based communication service. In addition to voice calls, it offers multiple functions including messaging (voice mail, instant messaging), presence management (On/Off/Busy, etc.), and telephony, video, and web conferencing, can be available from multiple types of terminals including fixed phones, PCs, mobile & smartphones.

Benefits

- Due to an aging PBX system, the company wanted to review its voice infrastructure from a cost and function perspective, and to establish a new working style that is not limited by time or location.
- Introduced a cutting-edge voice service platform based on Arcstar UCaaS that integrates functions including a web directory and MDM.
- A cloud-based voice platform supporting multiple carriers and devices allowed the company to accelerate the transition to the new working style and reduced annual costs by approximately 400 million yen.

Challenges

Despite these benefits, the company faced various challenges associated with the shift to a new working style. These include:

- **Integrating with legacy systems**: Since Arcstar UCaaS is a cloud-based platform, it requires careful integration with existing legacy systems to ensure a smooth transition.
- **User Acceptance**: Ensuring user acceptance of the new system is crucial, especially when transitioning from traditional PBX systems.
- **Network Integration**: Ensuring seamless network integration with multiple carriers and devices is another challenge.

Solution

NTT Communications offers a comprehensive solution that addresses these challenges. The solution includes:

- **Arbitrary GIP Trunking**: A service that allows customers who use Arcstar UCaaS to connect to multiple carriers without owning any equipment.

As a means of improving the productivity of every employee, All Nippon Airways (ANA) is actively working to establish a new working style that uses IT. It has created an environment where mail and other functions are not limited to fixed personal devices, and where mail, document creation, and other office work is possible anytime, anywhere, and from any device. The reasons for adopting this new working style were the changes in customer needs. Takeshi Hayashi of ANA explained. "At present, customer-centric services are becoming the mainstream. In order to provide the optimal services which meet the individual needs of each customer, it is important that we understand the customer's needs and behavior, and we must ourselves innovate by constructing a new business environment which incorporates the consumer IT that is used by the customers." Mr. Hayashi also explained that in order to improve the value of customer experiences and ensure satisfaction, it is necessary to provide seamless services at all points of contact with the customers and to provide human services that support the circumstances of each individual; consequently, another important factor is for the company to shift from vertically divided communication to a system of cross-cutting information links that transcend organization and division boundaries in order to create consistent service among different users.
Case Study

ALL NIPPON AIRWAYS CO., LTD
Innovation, Crew Mobile
Manager, Workstyle
Takeshi Hayashi

Outsource the management resulting from elimination of the PBX. The key to our choosing was the PBX that is used at each office can also be collected in the cloud, it is possible to manage, and then network maintenance costs could not reach before, but also make it possible to reduce the international calling charges that were expected to increases as our business globalized, and to reduce the cost of telephone services that we were using at major airports.

Although the introduction of various services had steadily advanced the shift to a new working style for ANA, there still remained the largest issues that needed to be resolved in order to create a new business infrastructure. These were the “work which could only be done at the desk because of the need to use a land-line telephone and the expensive voice infrastructure which utilized company’s own PBX.” In order to establish a new working style where employees were not tied to their desks, ANA faced an urgent need for a review of its existing voice tools.

Solution

Introduced a cutting-edge voice service platform based on Arcstar UCaaS that integrates functions including a web directory and MDM.

The time for review of existing voice infrastructure arrived when ANA started to update the aging PBX that was installed at large ANA Group facilities. The company took this opportunity to create a voice infrastructure (platform) for its existing PBX, and also to shift its mobile terminal and domestic/overseas PBX system to the cloud.

Norihiko Hamamoto of ANA Systems reflected on the conditions at that time. “It was the requirements for the communication infrastructure that were the most difficult, as we aimed to construct an advanced voice infrastructure that was the first of its kind in the world. The Fixed Mobile Convergence (FMC) for utilizing consumer IT to support the new working style was of particular importance. Because smartphones and other mobile terminals are becoming more advanced by the day, we focused on being able to adapt flexibly to future changes in this environment.” At its offices in Japan and overseas, the ANA Group was operating, managing, and maintaining an existing voice infrastructure composed of approximately 22,000 telephones and approximately 100 PBX. Mr. Hamamoto added, “We hoped for a proposal which would not only allow governance at local offices which management could not reach before, but also make it possible to reduce the international calling charges that were expected to increase as our business globalized, and to reduce the cost of telephone services that we were using at major airports.”

As a next-generation voice infrastructure which satisfied the high level of requirements, the company selected Arcstar UCaaS from NTT Communications. Multiple functions including IP telephones and web directories are integrated in the cloud, and this service allows the same functions to be used from anywhere in the world. Another large advantage is that the PBX that is used at each office can also be collected in the cloud, it is possible to outsource the management resulting from elimination of the PBX. The key to our choosing this service was the “cloud-based commercial service”. Mr. Hamamoto explained the reason. “There were also proposals for constructing an original voice infrastructure from scratch, but personnel and to develop innovative services. ANA is planning to expand its sales in the growth business of international routes, and plans for international route sales on the same level as domestic routes for the first time in 2016. This means that more than ever before, ANA will be providing services to customers from all parts of the world. “International routes are highly variable and susceptible to the effects of changes in the environment. As a result, it is necessary to establish a strong, solid business foundation through cost structural reforms, from the perspective of improving productivity as we work to streamline our business resources, the creation of an environment where our employees can work anytime, anywhere was essential,” said Mr. Hayashi.

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Benefits

A cloud-based voice platform supporting multiple carriers and devices allowed the company to accelerate the transition to the new working style and reduced annual costs by approximately 400 million yen.

At present, development of the next-generation voice infrastructure of Arcstar UCaaS to meet ANA specifications has been completed, and next the project will shift to the implementation phase, planning to complete the changeover at Haneda Airport by the end of September. Mr. Hamamoto explained, “With the creation of services for the voice infrastructure at large-scale airports and the change in calling charges due to the NTT Communications “Hikari Line” IP telephone service, we are expecting an extremely large reduction in costs.” When the transition is complete at all offices, including at large airports, the expected cost reduction will reach 400 million yen per year.

The next-generation voice service platform enables multi-carrier, multi-device solution enable to support FMC feature. By integrating fixed and mobile phones, it achieves a borderless environment. “In the future, because a calls will be routed directly to an individual’s own device, we will avoid the trouble of forwarding calls. Also, by using the web directory service, we can launch an application and with one tap place calls that we used to have to input by hand. The MDM function allows remote lock of smartphones and complete application of our security policy, ensuring sufficient security so that we can use this service in our work environment.”

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Hikari line(*): Direct access service to NTT Com’s exchange.

As of August 2014.
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Case Study

without security worries.” As Mr. Hamamoto explained, the new voice service infrastructure will also produce a dramatic leap forward in the new working style for ANA. The introduction of new telephony systems has also begun to change employees’ thinking. Mr. Hayashi says that the key to achieving the introduction of the new voice service infrastructure will be to re-examine existing services and customer relations. He says, “With the introduction of the new voice service infrastructure, we will re-examine existing services and customer relations, in order to streamline or manage their own work, and to enhance their overall performance.”

“When devices change, the way of using them also changes. I believe that providing services that the users will like is the key to changing the working style. For example, by creating a communication tool similar to the consumer IT, LINE, which employees are already familiar with, or by using devices in a secure work environment which is robust enough for company use. Of course, we have asked NTT Communications for proposals regarding interesting ways of working and using devices,” said Mr. Hayashi.

“We want to construct a unified environment that incorporates new functions which will allow employees to switch to a new dynamic and creative working style, and which will stimulate communication and collaboration among employees. We always take the position of a challenger, quickly adopting whatever we find that is good, using it ourselves, and then expanding its use throughout the company. Eventually we want to provide strong IT support not only for communication between employees and organizations, but also communication with outside customers and stakeholders,” added Mr. Hayashi.

(*) LINE: Instant messaging application with various stickers and voice & video call over 3G/4G & WiFi.

Benefits

- Due to an aging PBX system, the company wanted to review its voice infrastructure from a cost and function perspective, and to establish a new working style that is not limited by time or location.
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Challenges

- As a means of improving the productivity of every employee, All Nippon Airways (ANA) is actively working to establish a new working style that uses IT. It has created an environment where mail and other functions are not limited to fixed personal devices, and where mail, document creation, and other office work is possible anytime, anywhere, and from anywhere.
- The reasons for adopting this new working style were the changes in customer needs. Takeshi Hayashi of ANA, explained. “At present, customer-centric services are becoming the mainstream. In order to provide the optimal services which meet the individual needs of each customer, it is important that we understand the customer’s needs and behavior, and we must ourselves innovate by constructing a new business environment which incorporates the consumer IT that is used by the customers.”
- Mr. Hayashi also explained that in order to improve the value of customer experiences and ensure satisfaction, it is necessary to provide seamless services at all points of contact with the customers and to provide human services that support the circumstances of each individual; consequently, another important factor is for the company to shift from vertically divided communication to a system of cross-cutting information links that transcend organization and division boundaries in order to create consistent service among different

Case Study

Introduction: Arcstar UCaas

Arcstar UCaas (Unified Communications as a Service) is a cloud-based communication service. In addition to voice calls, it offers multiple functions including messaging (voice mail, instant messaging), presence management (On/Off/Busy, etc.), and telephony, video, and web conferencing, which can be available from multiple types of terminals including fixed phone, PCs, mobile & Smartphones.

**Intended service: Arcstar UCaas**

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**Benefits**

- **Global:** Arcstar UCaas can be covered in 156 countries and regions worldwide. The same service can be available seamlessly globally.
- **Utilize multi-device communication for all situations, including at your company, during business trips, in/ out of office, and at home.**
- **The customer does not need to own any equipment.** The solution can be contracted by ID, and adding IDs is quick and easy, making it possible to use the amount you need, when you need it.
- **Disconnected anywhere in the company, the use can be configured by ID, and adding IDs is quick and easy, making it possible to use the amount you need, when you need it.**
- **NTT Communications offers one-stop design, maintenance, and operation, including network services.**

**Challenges**

- **Due to an aging PBX system, the company wanted to review its voice infrastructure from a cost and function perspective, and to establish a new working style that is not limited by time or location.**
- **Introduced a cutting-edge voice service platform based on Arcstar UCaas that integrates functions including a web directory and MDM.**
- **A cloud-based voice platform supporting multiple carriers and devices allowed the company to accelerate the transition to the new working style and reduced annual costs by approximately 400 million yen.**

**Solution**

- **Capital:** 25.0 billion yen
- **Employees:** 12,416 (as of March 31, 2014)
- **Business areas:** Regularly scheduled air transport service, non-scheduled air transport service, aerial work services, other associated operations

**1. Scheduled air transportation business**

- Scheduled air transportation business
- Non-scheduled air transportation business and business utilizing aircraft
- Business of buying, selling, leasing and maintenance of aircraft and aircraft parts
- Aircraft transportation support business including passenger boarding procedures and loading of hand baggage


**Benefits**

- **Cloud:** By creating a communication tool similar to the consumer IT, LINE, which employees are already familiar with or by using devices in a secure work environment which is robust enough for company use. Of course, we have asked NTT Communications for proposals regarding interesting ways of working and using devices, said Mr. Hamamoto.

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