THE ULTIMATE PBX TO CLOUD MIGRATION GUIDE

Use this practical guide and checklist to help you and your team successfully migrate away from your PBX to the cloud.

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Project Go-Live

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Determine Roles (who does what) & Delegate Responsibilities	Inhouse/ Outsourced	Status	Notes
C Lead IT Network Expert			
Company Managers/Supervisors			
Project Nenager/Coordinator			
Assign Trainers for Early Adopters			
Assign Early Adopters for Early Testing			
 Corporate Trainers 			
Project Planning & Design			
Needs per Space/Department/User Type			
 Executive Offices 			
 Office Workers 			
 Traveling Sales Reps 			
 Conference Rooms 			
 Contact/Call Center Agents/remote/onsite) 			
 Maintenance Personnel 			
Public Access Areas			
 Analog Devices (le fax machines) 			
Elevators			
 integrated IP Devices (paging, speakers, etc.) 			
Document all Network Changes			
Routers			
Switches			
Firewalls			
Other			

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Enjoy this down-to-earth practical migration guide and checklist to understand what's really involved when moving your business phones to the cloud. Migrating your phones away from your trusted onsite PBX is an implementation project ripe with errors, stressful moments and lots of aggravation... *if* you're unprepared.

This article will address the various stages of the migration and planning process all the way through implementation so you can plan accordingly and be confident every step of the way.

More Businesses Are Moving their Phone Communications to Cloud

Cloud computing has gone beyond novelty stage and is now a robust, mature platform for business services of all kinds. Most businesses are on the cloud now, and many companies have developed a multi-cloud environment to provide additional redundancy and reliability.

The exception is found in those who have held out against inevitable change, clinging to old technologies and resisting the migration of services from local data centers and equipment closets to an internet-based environment.

But you can only buck trends for so long. Sooner or later, every business will move all or part of their communications to the cloud -- and that includes phone solutions.

Legacy Equipment will Eventually Become Obsolete

We all know the old saying "If it ain't broke, don't fix it." But in an ever-evolving business technology market, you can't afford to continually rely on deficient, obsolete legacy equipment if you want to compete with others in your space.

Many of us look with fondness on the equipment that we "grew up with" in the business. But unfortunately (or not), eventually all legacy solutions reach the end of their life-cycle and find themselves unceremoniously transported to the trash heap of comm system history.

If you don't want to be left behind, at some point you'll have to face the facts. Cloud-based phone systems offer significant improvements in efficiency, flexibility, reliability, and cost savings over traditional local PBX systems.

There's no getting around it.



FIRST STEP IN CLOUD MIGRATION PLANNING Determine Roles

Once you ultimately decide to move your phone system to the cloud and who your cloud provider will be, you will need to come up with a plan.

If you are still uncertain about choosing a phone provider, let us know and we'll be glad to help you out in this area by providing a free demo and pricing.

First, you'll have to figure out what needs to be done and who needs to do it.

Delegating parts of the project to trusted individuals in your organization means that you'll have people who can delve deeply into the details of your plan and deal with issues that you hadn't yet considered in your initial meetings.

Assigning roles is an important part of any project.

Here are some recommended roles. Not all of these roles are required. Keep in mind if you are working with a support partner such as Converged, some of these roles may be handled directly by them or the phone service provider.

IT Expert/Leader

Designating an IT expert is essential to the whole process of migrating your local PBX to the cloud.

There will still be networking and IT tasks to be completed for a smooth transition. One important requirement for any change to a live system or network is a change management plan.

Working with the cloud service provider and others within the organization, the experienced IT professional should develop a clear Method of Procedure style document to guide every step of the migration.

In addition, there are tasks such as capacity planning, internet connectivity, wi-fi, headsets, and other miscellaneous issues that require the technical know-how of an IT expert.

If you don't have an IT professional in-house or need additional help, you may want to hire external IT support just for this project.

Company Leadership, Managers, Supervisors

Company managers will need to direct and supervise the move.

Of primary importance is the need to make sure that any technical changes are closely aligned with business goals and policies.

- What does the company really need in a cloud-based phone solution?
- What features or services are they looking for?
- How does all this fit into company and departmental budgets?

Project Manager

A project manager gets into all the nittygritty of the coordination of tasks and resources. And there are plenty of logistics to coordinate.

There are meetings with all parties, documents requiring signatures, time schedules for activities, allocation of resources, and other assistance where needed. A project manager keeps communication channels open from start to finish of the project between internal and external points of contacts.

Initial Training for Early Adopters

Initial training on new equipment and software is important, particularly for early adopters of the technology.

During the startup of a cloud-based phone system, you will need to designate personnel to show new users at least the basics of how to use it, along with documentation that will answer any questions that they may have.

Once the new phone solution is rolled out, there will be undoubtedly some issues that users can't solve themselves. You'll need to have technical support available, either onsite, by phone, or online, to address any problems that may arise.



2 SECOND STEP IN CLOUD MIGRATION PLANNING Project Planning and Design

Despite any assurances from well-meaning cloud phone service vendors, there is not a "onesize-fits-all" solution for your telephony needs. Every business is different, with its own IT infrastructure and usage requirements.

Project planners will need to develop a comprehensive design that accounts for existing and future network infrastructure, the physical campus environment, and the business functions that the system will support.

This cannot be stated enough especially with larger businesses and those that utilize contact center environments.

A project plan and design should account for all the variations in your IT environment -- beyond the simple desk phone.

It's important not to let the cloud vendor's project manager or sales rep rush you through this process. That's why many companies use a vendor partner, like Converged Technology Professionals, to ensure the interests of the customer are always made first, ensuring the project proceeds at your pace, not the vendor's.

Understand your Various Needs per Space and User Type

- A conference room, for instance, requires special consideration. Conference room phones are specially made for the purpose. They will need sufficient audio so that everyone can hear. And they will need to be integrated with other network connectivity and devices present.
- Analog devices such as fax machines will need to interface with the cloud.
- Public area phones may need special configuration that is different from lines that employees use.
- Contact center agents may not need any deskphones at all if they can use softphone applications installed on their computers.

Document all Network Changes

Any planning and design documents should also deal with the configuration changes required to make the new solution work.

You will need diagrams that illustrate port configuration changes or additions to your current network. Routers, switches, firewalls, and other network devices should be configured to accommodate all the changes in data traffic.

Device settings should allow for optimal quality of service (QoS), accounting for possible latency, jitter, and other issues.

Understand Security Requirements

Security is paramount in today's risky internet environments. Research all the potential security vulnerabilities for the hardware and software that you will be installing.

Make sure that all firewall settings allow for the TCP ports used by the software, and limit access with access control lists and other security strategies.

Plan for Bandwidth Capacity for Voice and Data

Capacity planning is always a critical issue when designing a network-based IT solution.

You'll need to make sure that you have enough for any situation, and plenty of redundancy in case you lose a connection. Take a close look at your current telephone usage.

- What happens when all that becomes internet data flowing through the cloud?
- How much bandwidth will you need to ensure you don't have any bottlenecks or possible congestion issues during peak usage?
- Consider how a cloud-based phone solution will fit into your present IT environment.

Determine Growth Expectations for Usage Requirements

As part of the planning process, you'll need to determine the extent of usage anticipated, and make sure you account for future growth.

- How many desktop users will you have?
- How many software users?
- How many users will be accessing your cloud phone system through external devices, such as smartphones, laptops, or tablets?

Review and Document Your Call Flow (Call Routing)

A call flow analysis is essential in your migration planning.

- What assessments can you make regarding your current phone system that will help you with the new one?
- Do you have call routing that directs calls to specific customer service personnel?
- What about the workgroups or huntgroups of your existing system?
- All these things will need to be replicated or optimized in your cloud phone system.

Research and Know What Phone Numbers are Porting

Another important issue to account for in your migration to cloud planning is number porting.

Get a list of all your existing numbers that will be ported to the new system. Make sure that you can verify the carrier for each number. You will likely need to gather information from these phone companies so that you can keep the same numbers in the new solution. This could involve a lot of documentation and communication with carriers -- and don't be surprised if there are delays.

You'll want to make sure you get a good head start with this task.

Determine the Budgetary Costs

And of course, you're not done planning until you have counted the entire cost of the move.

Calculate how much you will need to spend on equipment and labor for any equipment or gear upgrades and phone migration. List all the hardware you will need, such as switches, routers, and headsets. Consider any special software you'll need to buy -and don't forget about software licenses. Make sure everything you're purchasing is compatible with everything else.

It's not fun having to return 100 headsets, for instance, simply because they have the wrong connectors. This is one area we often see neglected when companies try to go this alone, so remember to check compatibility on everything to avoid any unexpected last minute gotchas.





Before you go live with any new solution, it's always better to test it thoroughly. If you don't have a nice IT lab for all your testing, you could set up a few devices or a single department and use that for your lab.

Set up test cases for each function of the system and run through them in a systematic way, noting the results in a robust and complete report. Any failures should be addressed before any part of your system goes live.

If the implementation may have an impact on critical data systems, consider an overnight maintenance window for testing or installation.

Follow a well-written procedure with adequate rollback options in case things go wrong. Leave nothing to chance when installing a new solution.

The More Organized Your Training, The Smoother it will Go

Implementation of your phone and communications solution should be done in an orderly fashion. If it is a large user network, schedule individual sections or departments over a period of time to limit disruptions.

Implementation teams should include designated individuals from your company, any vendors, and any third parties involved in the solution. Make sure that all communication lines are open with all parties.

Once the system is in place, immediately begin training users. Trainers may come from internal resources or from your vendors or partners. Be sure to have adequate online and printed training materials, and provide classes if needed.

Even after the initial training, keep in mind that there may be further questions or adjustments required days or even weeks later.



Project Go-Live

The implementation of your new cloud-based phone system into a live networking environment should not be arbitrary or accidental.

When you set a definite go/no-go date and time, everyone will have a clear understanding of the target.

Just be sure that you don't schedule it during a busy season in your company. You want to reduce the impact of these changes as much as possible. And you may want to start production during a late-night maintenance window just to be sure.

Prior to giving the green light, you might consider having a room set up where users can come in for a brief training on the equipment and software. Don't let your employees be surprised come Monday morning with a new system that is totally unfamiliar to them. Ongoing training can continue after the go-live.

Use a Final Checklist

You should run through a final checklist before go-live to make sure everything is ready.

Has all the porting been done? Are all the network connections in place? Are there any last-minute tasks to complete?

Your project manager should be very active in overseeing the transition. Make sure your checklist is thorough, and get final approvals from appropriate teams and individuals. Be vigilant. You've got a lot riding on this.

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& Gear Headsets	Determine Roles (who does what) & Delegate Responsibilities	Inhouse/ Outsourced	Status	Notes
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Software Up	Company Managers/Supervisors			
Hardware L	Project Manager/Coordinator			
Hardman	Assign Trainers for Early Adopters			
	 Assign Early Adopters for Early Testing 			
Project Implei Internal Test I	O Corporate Trainers			
Create Te				
() Systema	Needs per Space/Department/User Type			
O Retest	 Executive Offices 			
 Plan for Testing 	Office Workers			
Windo	 Traveling Sales Reps 			
O Trainin	 Conference Rooms 			
⊖ ^{Traini}	Contact/Call Center Agents(remote/onsite)			
Implem	Maintenance Personnel			
O By I	Public Access Areas			
O Imi	Analog Devices (ie fax machines)			
O Tre	Elevators			
00	 Integrated IP Devices (paging, speakers, etc.) 			
	Document all Network Changes			
Pro	O Routers			
Cre	O Switches			
0	Firewalls			
0	O Other			
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Post-Implementation

Once the implementation is completed it's easy to sit back and think it's a wrap. This is where many businesses fail to recognize the importance of measuring the success of the investment post-implementation.

Know your goals and metrics

In the early stages of planning the migration process, there were specific goals the business wanted to achieve. Locate those goals and set quarterly dates for when you will review. Use these findings to justify why the move to cloud was well worth the investment.

What metrics will you need to use to measure the success of these goals? For example, if one of your goals was to improve customer engagement, which metrics are needed to measure the outcome?

Remember, not all goals are financial in nature, such as gaining improved SLAs for heavy call volumes, or increasing the use of collaboration tools such as web video, chat or group tools between remote users.

Work with your team

Measuring the success of the implementation will involve coordinating with people in various departments.

For example, if one of the initial goals was to reduce travel expenses, you will need to speak with those in your accounting department to compare previous and current reports. Likewise, if another goal was to employ more remote contact center agents or employees, you will need to speak with your HR department.

Conclusion

Rolling out a new cloud-based phone system will be less risky and less stressful if you've properly laid all the groundwork.

That means involving all the necessary people in the process, making this a team effort.

Migrating to a new cloud solution can be more complex and problematic than installing a brand new system for a new business. There's no substitute for thorough preparation, and getting ahead of yourself can be both embarrassing and costly. Do your research, get everything documented, and ask a lot of questions. Only then will you have the best chance of eliminating the errors that can make for a less-than-optimal rollout.

A good checklist can go a long way toward success in any IT project. Use the printable planning checklist included at the end of this guide to help get you started.



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Determine Roles & Delegate Responsibilities	Inhouse/ Outsourced	Status	Notes
Lead IT Network Expert			
Company Leadership/Mgt/Supervisors			
Project Manager/Coordinator			
Trainers for Early Adopters			
Early Adopters for Early Testing			
O Corporate Trainers			
Project Planning & Design			
Needs per Space/Department/User Type			
Executive Offices			
Office Workers			
Travelling Sales Reps			
O Conference Rooms			
 Contact/Call Center Agents(remote/onsite) 			
O Maintenance Personnel			
O Public Access Areas			
Analog Devices (ie fax machines)			
 Elevators 			
Integrated IP Devices (paging, speakers, etc.)			
Document all Network Changes			

\bigcirc	Routers		
\bigcirc	Switches		
\bigcirc	Firewalls		
\bigcirc	Other		

Project Planning & Design	Inhouse/ Outsourced	Status	Notes
Understand Security Requirements	Outsourced		
Federal/State/Industry			
○ E911			
 Internal Security Policies & Practices 			
Bandwidth Capacity (Voice & Data)			
O QoS, Jitter, Latency, etc.			
Internet Data Usage Projections			
○ Voice Data Usage Projections			
O Bottleneck Scenarios			
Redundancy			
Usage Growth Expectations			

- O Desktop Users
- Software App/Remote Users
- Office Expansion Plans

Review & Document Current Call Flow and Routing

- Work Groups
-) Hunt Groups
-) IVRs
- Call Flow Monitoring & Analytics

Number Porting

\bigcirc	Obtain Accurate List of All Owned Numbers With Carrier/s
\bigcirc	Determine Which Numbers to Port
\bigcirc	Complete the necessary forms
\bigcirc	Document Numbers with Call Flows & Routing

PBX TO CLOUD MIGRATION PLANNING CHECKLIST



Project Planning & Design	Inhouse/ Outsourced	Status	Notes
Determine Budgetary Costs	Outsourced		
 Replace Incompatible Hardware & Gear 			
Headsets			
 Firewalls (Remote users too) 			
O Desk Phones			
Software Upgrades			
O Hardware Upgrades			

Project Implementation & Training
Internal Test Lab Environment
Create Test Cases/Scenarios
Systematically Track Results
O Retest All Changes/Modifications
 Plan for Critical Data Systems Testing During Maintenance Window
Training Dates
Training Materials for Users

Implementation Roll Out

\bigcirc	By Department or Company-wide
\bigcirc	Implementation Dates Communicated
\bigcirc	Determine Troubleshooting Processes
\bigcirc	Designated Trainers
\bigcirc	Distribution

Project Go-Live

Create Final Checklist of each Scenario to Test

- Create Scenario checklist
- Receive final approvals
-) Be Diligent

PBX TO CLOUD MIGRATION PLANNING CHECKLIST





Converged Technology Professionals helps businesses experience the many benefits that migrating to a cloud based phone and communications solution offer. As a RingCentral Preferred Partner and a Mitel Platinum partner, Converged Technology Professionals delivers professional industry guidance and advisement that helps businesses make informed decisions throughout the migration process from research to implementation and ongoing support.

Contact us to learn more about Converged Technology Professionals or request a cloud demo.



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