



Photo Communications Corp. DBA Meridia Audience Response

CloudVOTE Disaster Recovery Plan

Last Update: 09/10/19





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Information Technology Statement of Intent

This document delineates our policies and procedures for technology disaster recovery, as well as our process-level plans for recovering critical technology platforms as they relate to Hosted CloudVOTE SaaS Product ("Service"). This document summarizes our recommended procedures. In the event of an actual emergency situation, modifications to this document may be made to ensure physical safety of our people, our systems, and our data.

Our mission is to ensure personnel safety, information system uptime, data integrity and availability, and business continuity.

Policy Statement

Corporate management has approved the following policy statement:

- The company shall develop a comprehensive Service disaster recovery plan.
- A formal risk assessment shall be undertaken to determine the requirements for the disaster recovery plan.
- The disaster recovery plan should cover all essential and critical hosted infrastructure elements, systems and networks, in accordance with key business activities.
- The disaster recovery plan should be periodically tested in a simulated environment to ensure that it can be implemented in emergency situations and that the management and staff understand how it is to be executed.
- All staff must be made aware of the disaster recovery plan and their own respective roles.
- The disaster recovery plan is to be kept up to date to take into account changing circumstances.

Objectives

The principal objective of the disaster recovery program is to develop, test and document a well-structured and easily understood plan which will help the Service recover as quickly and effectively as possible from an unforeseen disaster or emergency which interrupts the Service and dependent business operations. Additional objectives include the following:

- The need to ensure that all employees fully understand their duties in implementing such a plan.
- The need to ensure that operational policies are adhered to within all planned activities.
- The need to ensure that proposed contingency arrangements are cost-effective.
- The need to consider implications on all Service instances.
- Disaster recovery capabilities as applicable to key customers, vendors and others.



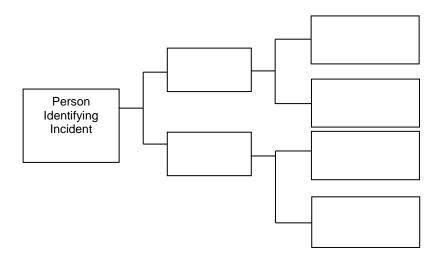


Key Personnel Contact Info Emergency Response Team (ERT)

Name, Title	Contact Option	Contact Number
	Business	
	Mobile	
	Primary	
	Alternate	
	Business	
	Mobile	
	Primary	
	Alternate	



Notification Calling Tree



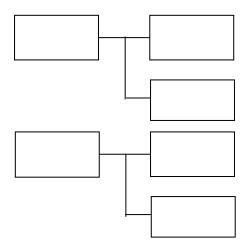




External Contacts

Name, Title	Contact Option	Contact Number

External Contacts Calling Tree







1 Plan Overview

1.1 PLAN UPDATING

It is necessary for the DRP updating process to be properly structured and controlled. Whenever changes are made to the plan they are to be fully tested and appropriate amendments should be made to the training materials. This will involve the use of formalized change control procedures under the control of the COO.

1.2 PLAN DOCUMENTATION STORAGE

Copies of this Plan, CD, and hard copies will be stored in secure locations to be defined by the company. Each member of senior management will be issued a CD and hard copy of this plan to be filed at home. Each member of the Disaster Recovery Team and the Business Recovery Team will be issued a CD and hard copy of this plan. A master protected copy will be stored on specific resources established for this purpose.

1.3 BACKUP STRATEGY

Key CloudVOTE Components, agreed backup strategy, and primary and backup location for each are listed below. The strategy chosen is for a fully geo-redundant recovery site (either "West US", "East US" or "Central US"). This strategy entails the maintenance of a fully mirrored duplicate site, which will enable instantaneous switching between the live site (Primary) and the recovery (Backup) site.

KEY CLOUDVOTE COMPONENT	BACKUP STRATEGY (Primary/Backup)
Azure App Service	Fully mirrored recovery site (East US/West US)
Azure Storage	Fully mirrored recovery site (East US/West US)
Azure SQL Database	Fully mirrored recovery site (East US/West US)
Azure Cloud Service	Fully mirrored recovery site (East US/West US)



1.4 RISK MANAGEMENT

There are many potential disruptive threats which can occur at any time and affect the normal business process. We have considered a wide range of potential threats and the results of our deliberations are included in this section.

Potential disasters have been assessed as follows:

Potential Disaster	Probability Rating	Impact Rating	Potential Consequences	Brief Description Of Remedial Actions
Virus/Malware	3	2	Application malfunction	Anti-malware cleanup, automatic switch to backup site
Hack/Intrusion	3	2	Compromised security & privacy	Immediate shutdown and automatic switch to backup, follow-up code review
Environment failure	3	1		Automatic switch to backup
Regional failure	5	1		Automatic switch to backup

Probability: 1=Very High 5=Very Low

Impact: 1=Total destruction 5=Minor annoyance

2 Emergency Response

2.1 ALERT, ESCALATION AND PLAN INVOCATION

2.1.1 Plan Triggering Events

Key trigger issues at the live site that would lead to activation of the DRP are:

- · Total loss of all communications
- Total loss of power
- Hack/Digital Intrusion
- Loss of the building

2.1.2 Activation of Emergency Response Team

When an incident occurs, the Emergency Response Team (ERT) must be activated. The ERT will then decide the extent to which the DRP must be invoked. All employees must be issued a Quick Reference card containing ERT contact details to be used in the event of a disaster. Responsibilities of the ERT are to:

- Respond immediately to a potential disaster and call emergency contacts;
- Allocate responsibilities and activities as required;
- Assess the extent of the disaster and its impact on business functions, application continuity, etc.;
- · Decide which elements of the DR Plan should be activated;
- Establish and manage disaster recovery team to maintain vital services and return to normal operation.





2.2 DISASTER RECOVERY TEAM

The team will be contacted and assembled by the ERT. The team's responsibilities include:

- Establish facilities for an emergency level of service within one (1) business hour;
- Restore key services within two (2) business hours of the incident;
- Recover to business as usual within eight (8) to twenty-four (24) hours after the incident;
- · Coordinate activities with disaster recovery team;
- · Report to the emergency response team.

2.3 EMERGENCY ALERT, ESCALATION AND DRP ACTIVATION

This policy and procedure has been established to ensure that in the event of a disaster or crisis, personnel will have a clear understanding of who should be contacted. Procedures have been addressed to ensure that communications can be quickly established while activating disaster recovery.

2.3.1 Emergency Alert

The person discovering the incident calls a member of the Emergency Response Team in the order listed:

Emergency Response Team

- First Contact
- Second Contact
- Third Contact

If not available try:

- First Backup Contact
- Second Backup Contact

The Emergency Response Team (ERT) is responsible for activating the DRP for disasters identified in this plan, as well as in the event of any other occurrence that affects the company's capability to perform normally.

One of the tasks during the early stages of the emergency is to notify the Disaster Recovery Team (DRT) that an emergency has occurred. The notification will request DRT members to assess all available information about the problem and will involve sufficient details to have this request effectively communicated. The Business Recovery Team (BRT) will consist of senior representatives from the main business departments. The BRT Leader will be a senior member of the company's management team, and will be responsible for taking overall charge of the process and ensuring that the company returns to normal working operations as early as possible.

2.3.2 DR Procedures for Management

Members of the Meridia management team will keep a hard copy of the names and contact numbers of each member of the ERT. In addition, management team members will have a hard copy of the company's disaster recovery and business continuity plans on file in their homes in the event that the headquarters building is inaccessible, unusable, or destroyed.

2.3.3 Contact with ERT

Meridia managers will serve as the focal points in case of emergency, while designated contacts will notify the ERT, discuss the crisis/disaster and the company's immediate plans. If members of the Meridia management or others on ERT cannot reach one of the designated contacts, they are advised to call the secondary (emergency) contact to relay information on the disaster.

2.3.4 Backup Staff

If a Meridia manager or staff member designated to contact other members of the ERT is unavailable or incapacitated, the designated backup staff member will perform notification duties.





2.3.5 Recorded Messages / Updates

For the latest information on the disaster and the organization's response, ERT members can call any of the numbers listed in the DRP wallet card. Included in messages will be data on the nature of the disaster, steps taken toward recovery so far, and any updates on latest progress of work resumption.

2.3.7 Alternate Recovery Facilities / Hot Site

Automatically, through a geo-redundant failover mechanism, the hot site will be activated and notification will be given via email, phone or through communications with managers.

4 Insurance

As part of the Service disaster recovery and business continuity strategies a number of insurance policies have been put in place. These include errors and omissions, directors & officers liability, general liability, and business interruption insurance.

If insurance-related assistance is required following an emergency out of normal business hours, please contact:

Policy #	Coverage Type	Coverage Period	Amount Of Coverage	Next Renewal Date



5 Financial and Legal Issues

5.1 FINANCIAL ASSESSMENT

The emergency response team shall prepare an initial assessment of the impact of the incident on the financial affairs of the Service. The assessment should include:

- · Loss of uptime
- Loss of information
- Extraneous cost related to employing emergency resources

5.2 FINANCIAL CONSIDERATIONS

The immediate financial consideration of/on the Service must be addressed. These can include:

- Immediate effect of downtime on Service revenue
- Temporary cost increase due to resiliency failover

5.3 LEGAL ACTIONS

The company legal department and Meridia management will jointly review the aftermath of the incident and decide whether there may be legal actions resulting from the event; in particular, the possibility of claims by or against the company for regulatory violations, etc.

6 DRP Exercising

Disaster recovery plan exercises are an essential part of the plan development process. In a DRP exercise, everyone who participates learns what needs to be improved, and how the improvements can be implemented. Plan exercising ensures that emergency teams are familiar with their assignments and, more importantly, are confident in their capabilities.

Successful DR plans launch into action smoothly and effectively when they are needed. This will only happen if everyone with a role to play in the plan has rehearsed the role one or more times. The plan should also be validated by simulating the circumstances within which it has to work and seeing what happens.





Appendix A – Technology Disaster Recovery Plan

DISASTER RECOVERY PLAN FOR CLOUDVOTE INSTANCE

SYSTEM	"CloudVOTE"
OVERVIEW	
	Location: East US
PRODUCTION SERVER	System Handle: CloudVotePollHub20
	Resource Group: CloudVote2.0
HOT SITE SERVER	West US
APPLICATIONS	App Service (Website Login)
ACCOCIATED CERVERS	CloudVoteStorage20
ASSOCIATED SERVERS	CloudVoteSQL
KEY CONTACTS	
SYSTEM OWNERS	
BACKUP STRATEGY	
DAILY	Geo-Replicated to West US region
MONTHLY	External (Azure Storage) backup
DISASTER RECOVERY PROCEDURE	
SCENARIO 1	Automatic, immediate switch to West US hot site
TOTAL LOSS OF DATA	Adiomatic, infinediate switch to West OS Hot site
SCENARIO 2	Automatic, immediate switch to West US hot site
TOTAL LOSS OF HW	Adiomatic, immediate switch to vvest oo not site





ADDENDUM

CONTACTS	
PRIMARY	
SECONDARY	
File System as of 12/30/16	
USER ACCOUNTS	
NECESSARY ACCOUNTS TO CREATE	





DISASTER RECOVERY PLAN FOR CLOUDVOTE INSTANCE

SYSTEM	"CloudVOTE"
OVERVIEW	
	Location: East US
SERVER	System Handle: CloudVoteSQL
	Resource Group: CloudVoteRedux
HOT SITE SERVER	West US
APPLICATIONS	SQL Database (session data)
ASSOCIATED SERVERS	CloudVoteStorage20
ASSOCIATED SERVERS	CloudVotePollHub20
KEY CONTACTS	
SYSTEM OWNERS	
BACKUP STRATEGY	
DAILY	Geo-Replicated to West US region
MONTHLY	External (Azure Storage) backup
DISASTER RECOVERY PROCEDURE	
SCENARIO 1	Automatic, immediate switch to West US hot site
TOTAL LOSS OF DATA	Additionality, infinediate switch to west 00 hot site
SCENARIO 2	Automatic, immediate switch to West US hot site
TOTAL LOSS OF HW	, identification, immodulate dwitch to voca do not die





ADDENDUM

CONTACTS	
PRIMARY	
SECONDARY	
File System as of 12/30/16	
USER ACCOUNTS	
NECESSARY DATABASE ENTRY	





DISASTER RECOVERY PLAN FOR CLOUDVOTE INSTANCE

SYSTEM	"CloudVOTE"
OVERVIEW	
EQUIPMENT	Location: East US
	System Handle: CloudVoteStorage20
	Resource Group: CloudVote2.0
HOT SITE EQUIPMENT	West US
SPECIAL APPLICATIONS	Blob Storage (template data – images)
ASSOCIATED SERVERS	CloudVotePollHub20
	CloudVoteSQL
KEY CONTACTS	
SYSTEM OWNERS	
BACKUP STRATEGY	
DAILY	Geo-Replicated to West US region
MONTHLY	External (Azure Storage) backup
DISASTER RECOVERY PROCEDURE	
SCENARIO 1	Automatic, immediate switch to West US hot site
TOTAL LOSS OF DATA	
SCENARIO 2	Automatic, immediate switch to West US hot site
TOTAL LOSS OF HW	





ADDENDUM

CONTACTS	
PRIMARY	
SECONDARY	
File System as of 12/30/16	
USER ACCOUNTS	
NECESSARY TEMPLATES TO RESTORE	





Appendix B – Damage Assessment Form

Key Business Process Affected	Descriptio	n Of Problem	Extent Of Damage
Where practical, this pla	es Form very process all activities	on a regular basis thro	g a standard structure; ughout the disaster recovery perio
Commencement	Completion		
Date/Time	Date/Time	Resources Invol	ved In Charge
Date/Time	Date/Time		
nitials:			





DISASTER RECOVERY EVENT RECORDING FORM

- All key events that occur during the disaster recovery phase must be recorded.
- An event log shall be maintained by the disaster recovery team leader.
- This event log should be started at the commencement of the emergency and a copy of the log passed on to the business recovery team once the initial dangers have been controlled.
- The following event log should be completed by the disaster recovery team leader to record all key events during disaster recovery, until such time as responsibility is handed over to the business recovery team.

Description of Disaster:		·			
Commencement Date:	Commencement Date:				
Date/Time DR Team Mobilized:	:				
Activities Undertaken by DR Team	Date and Time	Outcome	Follow-On Action Required		
			•		
Disaster Recovery Team's Work C	completed:				
Event Log Passed to Business Re	ecovery Team:				
Initials:					





DISASTER RECOVERY ACTIVITY REPORT FORM

- On completion of the initial disaster recovery response the DRT leader should prepare a report on the activities undertaken.
- The report should contain information on the emergency, who was notified and when, action taken by members of the DRT together with outcomes arising from those actions.
- The report will also contain an assessment of the impact to normal business operations.
- The report should be given to business recovery team leader, with a copy to senior management, as appropriate.
- A disaster recovery report will be prepared by the DRT leader on completion of the initial disaster recovery response.
- · In addition to the business recovery team leader, the report will be distributed to senior management

The report will include:

- A description of the emergency or incident
- Those people notified of the emergency (including dates)
- · Action taken by members of the DRT
- Outcomes arising from actions taken
- · An assessment of the impact to normal business operations

Date Work of Disaster Recovery Team Completed:

- Assessment of the effectiveness of the BCP and lessons learned
- · Lessons learned

Date Occurred:

MOBILIZING THE DISASTER RECOVERY TEAM FORM

Description of Emergency:

- Following an emergency requiring recovery of technology infrastructure assets, the disaster recovery team should be notified of the situation and placed on standby.
- The format shown below can be used for recording the activation of the DR team once the work of the damage assessment and emergency response teams has been completed.

Name of Team Member	Contact Details	Contacted On (Time / Date)	By Whom	Response	Start Date Required
Relevant Comments (e.g., Specific Instructions Issued)					

Initials:



Description of Emergency:

NS Phone: 610-260-6800, Fax: 610-260-6810, Email: rsvp@meridiaars.com



MOBILIZING THE BUSINESS RECOVERY TEAM FORM

- Following an emergency requiring activation of the disaster recovery team, the business recovery team should be notified of the situation and placed on standby.
- The format shown below will be used for recording the activation of the business recovery team once the work of the disaster recovery team has been completed.

Date Occurred:					
Date Work of B	usiness Recover	y Team Complete	ed:		
Name of Team Member	Contact Details	Contacted On (Time / Date)	By Whom	Response	Start Date Required
Relevant Commo	ents (e.g., Specific	Instructions Issued			
Initials:					

MONITORING BUSINESS RECOVERY TASK PROGRESS FORM

- The progress of technology and business recovery tasks must be closely monitored during this period of time.
- Since difficulties experienced by one group could significantly affect other dependent tasks it is important to
 ensure that each task is adequately resourced and that the efforts required to restore normal business
 operations have not been underestimated.

Note: A priority sequence must be identified although, where possible, activities will be carried out simultaneously.

	Recovery Tasks	Person(s) Responsible	Completi	on Date	Milestones	Other Relevant	
	(Order of Priority)	r orden(d) redpondible	Estimated	Actual	Identified	Information	
1.							
2.							
3.							
4.							
5.							

Initial	S:	





PREPARING THE BUSINESS RECOVERY REPORT FORM

- On completion of business recovery activities the BRT leader should prepare a report on the activities undertaken and completed.
- The report should contain information on the disruptive event, who was notified and when, action taken by members of the BRT together with outcomes arising from those actions.
- The report will also contain an assessment of the impact to normal business operations.
- The report should be distributed to senior management, as appropriate.

The contents of the report shall include:

- A description of the incident
- People notified of the emergency (including dates)
- Action taken by the business recovery team
- Outcomes arising from actions taken
- An assessment of the impact to normal business operations
- Problems identified
- Suggestions for enhancing the disaster recovery and/or business continuity plan
- Lessons learned





COMMUNICATIONS FORM

- It is very important during the disaster recovery and business recovery activities that all affected persons and organizations are kept properly informed.
- The information given to all parties must be accurate and timely.
- In particular, any estimate of the timing to return to normal working operations should be announced with care.

Groups of Persons or Organizations Affected	Persons Selected To Coordinate Communications to Affected Persons / Organizations			
by Disruption	Name	Position	Contact Details	
Customers				
Management & Staff				
Stakeholders				
Others				

Initials:	
RETURNING RECOVERED BUSINESS OPERATIONS TO BUSINESS UNIT LEADERS	HIP

- Once normal business operations have been restored it will be necessary to return the responsibility for specific operations to the appropriate business unit leader.
- This process should be formalized in order to ensure that all parties understand the change in overall responsibility, and the transition to business-as-usual.
- It is likely that during the recovery process, overall responsibility may have been assigned to the business recovery process lead.
- It is assumed that business unit management will be fully involved throughout the recovery, but in order for the recovery process to be fully effective, overall responsibility during the recovery period should probably be with a business recovery process team.





BUSINESS PROCESS/FUNCTION RECOVERY COMPLETION FORM

The following transition form should be completed and signed by the business recovery team leader and the responsible business unit leader, for each process recovered.

A separate form should be used for each recovered business process.

Name Of Business Process
Completion Date of Work Provided by Business Recovery Team
Date of Transition Back to Business Unit Management (If different than completion date)
I confirm that the work of the business recovery team has been completed in accordance with the disaster recovery plan for the above process, and that normal business operations have been effectively restored.
Business Recovery Team Leader Name:
Signature:
Date: (Any relevant comments by the BRT leader in connection with the return of this business process should be made here.)
I confirm that above business process is now acceptable for normal working conditions.
Name:
Title:
Signature:
Date: