

Appendix 3 Disaster Recovery Plan

DRAFT

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REVISION HISTORY

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1.0 DISASTER RECOVERY PLAN OVERVIEW

Qwest is fully committed to supporting Government Emergency Response efforts and is structured to work with the GSA Networx PMO and Agencies in meeting voice and data services communication needs before, during, and after disaster-related events.

The key to Business Continuity when a disaster occurs is to be prepared to minimize the impact of the disaster, and to have all the procedures and mechanisms in place to provide a full, timely recovery of operations. To ensure business survivability during a crisis or prolonged business interruption, Qwest's corporate Disaster Preparedness (DP) Organization uses Qwest policies, procedures, standards, and key strategies, as well as Government directives, Executive Orders, and mandates to protect our customers, employees, telecommunications infrastructure and OSS, and critical business functions.

They cover our full range of business networks (local, long distance, digital, voice over IP, and Internet provider and hosting), as well as Qwest employees, team members, facilities

. With a global presence, Qwest faces and responds to diverse and challenging types of disaster-related threats all around the world.

Our DP Organization and our Emergency Response Teams (ERTs) are structured to work with the Government to meet each Agency's needs to prepare for and respond to disasters. During an event, ERTs remain in an active status until client voice and data services are restored. They



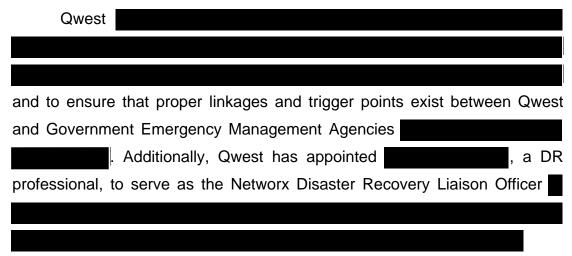
communicate with Agencies and ensure that our disaster recovery efforts align with the Government's and Agencies' emergency operations center activities.

Qwest's current BC/DR Plans outline all critical components within each of the company's business units.



2.0 CORPORATE COMMITMENT AND EXECUTIVE SUPPORT

Qwest's DP Organization is a vital component of our integrated, enterprise-wide risk management organization. Our corporate risk management structure fully leverages an integrated risk approach using linkages to safety and environmental management, corporate security, information security/Government security, and regulatory compliance.



Qwest's executive management supports disaster prevention and a recovery strategy that prioritizes prevention, through sound infrastructure design, diverse network architecture, integrated security measures, aggressive network monitoring, and continuity planning. Qwest achieves continual disaster recovery readiness through our multi-hazard response structure, training, exercises, pre-negotiated agreements, and resource identification.



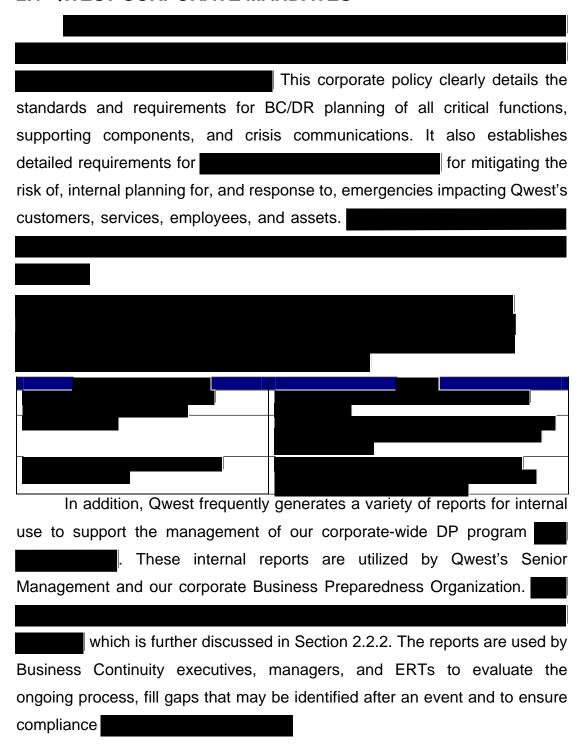








2.1 QWEST CORPORATE MANDATES



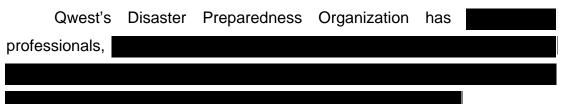




2.2 DISASTER PREPAREDNESS/RECOVERY SUPPORT **NETWORK**

Qwest already has in place a sophisticated network of knowledgeable employees who are individually and collectively responsible for ensuring the solid, corporate-wide integration of our overall DP capabilities.

2.2.1 Corporate Disaster Preparedness Organization



Disaster preparedness staff members are highly skilled in the areas of project initiation and management, risk evaluation and control, business impact analysis, business development continuity strategies, emergency response and operations, Business Continuity Plans, awareness and training communications, and coordination programs, crisis with external stakeholders.

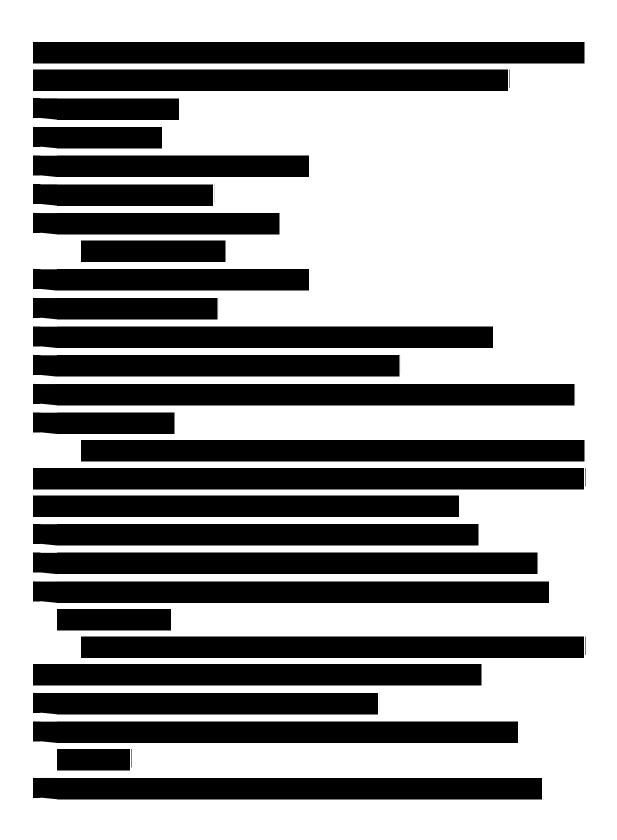


. The DP duty manager gathers intelligence and determines the
appropriate level for initial response
2.2.2 Business Continuity (BC) Managers
The DP staff uses an integrated approach to identify key Subject
Matter Experts (SMEs) within each critical business unit that serve as the
focal point for the business unit's BC/DR capabilities and compliance status.
These Business Continuity Managers are knowledgeable of their business
unit's organization and functions, and are trained in risk mitigation, planning,
and testing.



. The Business Continuity Plans
and are comprehensive enough to deal with all
types of emergencies specific to Agencies, nationwide disasters or localized
events, and critical internal business functions.
Business Continuity Managers are responsible for identifying and
enlisting SMEs as coordinators and planners to assist with identifying,
creating, maintaining, and testing all BC/DR Plans for all critical functions and
components annually.
Business Continuity Managers
also serve as an interface between continuity planners and ERT personnel.
Training is important to the effectiveness of any Business Continuity
Plan.

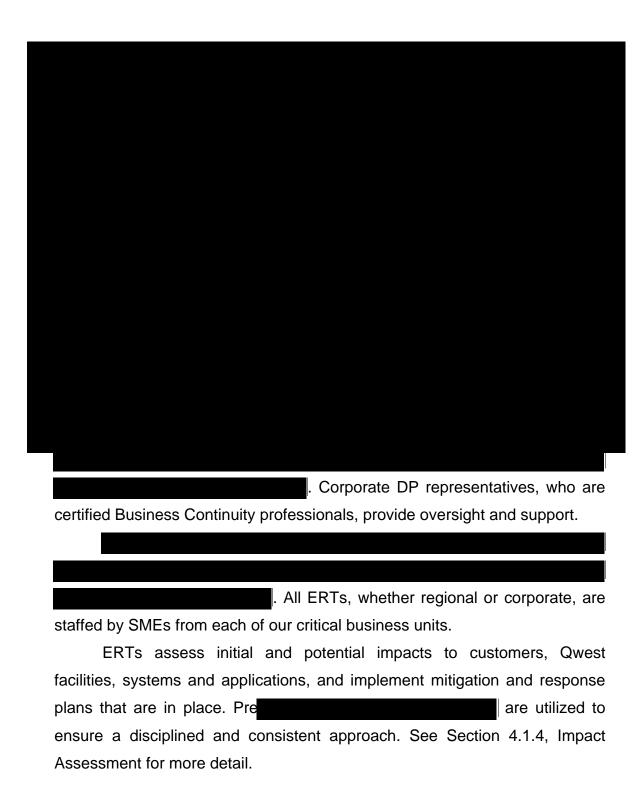






2.2.3 Emergency Response Teams (ERTs)
that are
geographically dispersed and prepared to respond quickly to any type of
disaster or event that affects Qwest's customers, facilities, and services.
our national network provides coverage in the
, some members of our National Region ERT are also part of the
regional ERTs. This strategy ensures that there is full collaboration as each
event is responded to, so that any impacts to our customers, national or
regional, are minimized. Such collaboration also occurs in response to
international events, through our Corporate ERT that has an OCONUS team
component (







Where appropriate and as needed, DP resources are invoked, deployed, or dispatched.

Qwest's Networx Disaster Recovery Liaison Officer,
is part of the national ERT. Additionally, other key team members are
members of the national ERT and other regional ERTs, based on their
geographic location.

All of Qwest's ERTs are structured with processes, which are tested
annually, to address rapid mobilization of resources wherever and whenever
they are needed in the United States –

they are needed in the United States -
in the National Capital Region, we have ERT sub-team
members who provide on-site response and recovery actions.



The Northeast Region Team has responded to events in the National
Capital Region, mitigating impacts to Agencies. All teams are staffed with
trained team members along with the resources needed to be ready to
respond to any type of adverse event.
the built-in redundancy in the design of the network provides
Qwest's customers with a high level of resiliency.

3.0 BUSINESS CONTINUITY AND DISASTER RECOVERY (BC/DR) PLANNING

3.1 CONTINUITY OF OPERATIONS

Qwest has a strong focus on planning for continuity and recovery of operations. Contingency planning means preparing for any day-to-day outages as well as long-term continuity or disaster scenarios. All critical facilities, such as data centers, CyberCenters™, customer call centers, and network operation/management centers have redundancy in their design. On a local level, this includes redundancy for power, network, and functions, which are incorporated into BC/DR Plans. All personnel involved in Business

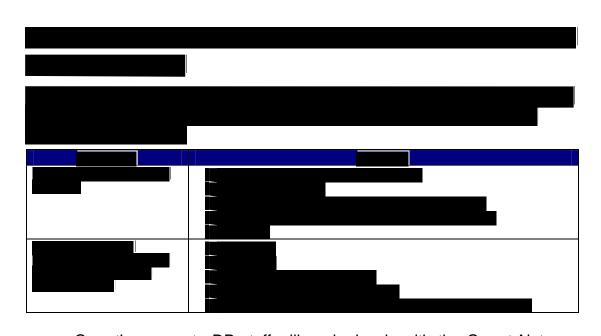


	entinuity planning are trained in the execution of these procedures and lover processes in the event of a disruption.
	Should a disaster occur and any specific part of this network
	chitecture is impacted, the following is in place to ensure Qwest's
infi	rastructure has continuity:
•	OSS and Data – redundancy is designed into critical network components,
	both at the processor and data levels, resulting in a system failover
	without any disruption, in most cases.
•	From a facility perspective, Qwest has built into our network design
	redundancy and survivability,
	If a facility were damaged
	in such a way as to impact the network, Qwest would activate one of our
	ERTs comprised of trained SMEs from all business units, including
	personnel from Network and Procurement. They will quickly respond,



	to and including the deployment of geographically dispersed mobile network trailers
	From a backbone perspective, fully self-healing rings and "meshed"
	networks reduce the risk of network outages and speed up recovery.
	This is all monitored
	Qwest's network management system is purposely designed to make
	real-time network monitoring resistant to failure, which avoids the
	possibility of a single point of failure impacting the entire network
	management function.
3.2	2 CORE ELEMENTS OF A BC/DR PLAN
	All business units are responsible for identifying their critical functions
and	d developing BC/DR Plans to reduce the risks of a disaster and to minimize
mp	pacts on those functions in the event of a disaster.
	The DP staff works in conjunction with Qwest's business units to
	ntify critical functions in all business units. The units then use this analysis
0	develop BC/DR Plans for those functions.





Qwest's corporate DP staff will work closely with the Qwest Networx DR Liaison Officer to:



Additionally, Qwest has developed standard BC/DR planning	
components to ensure that our plans use industry best practices and a	
consistent and integrated throughout the corporation. All plans must include	е
contingencies and/or alternate processes in the following areas:	
Owent's DD program uses industry standards and heat practices wi	L
Qwest's DP program uses industry standards and best practices wi	
all vendors and suppliers,	

All critical vendors and suppliers are required to have a Business Continuity Plan, included in their contract as part of the SLA, to address



events that could impact their ability to provide products or services to Qwest.
All of Qwest's Business Continuity Plans are tested on an annual
basis to meet corporate compliance,
3.3 PLAN TESTING
In compliance with standards set forth in
, all BC/DR Plans are tested
annually and updated throughout the year. Depending upon the maturity and
criticality of these plans, the tests may be checklists, tabletops, or
simulations.
All plan compliance
results will be provided to the GSA PMO for review on a regular basis
including, at a minimum, the annual updates to the Disaster Recovery Plan.



4.0 EMERGENCY RESPONSE
4.1 BC/DR COMMAND STRUCTURE AND RESPONSIBILITIES
Qwest utilizes a modified Incident Command System. When a disaster
is imminent that could affect numerous customers,
Prompt notification is important for reducing the effects on network
systems
. Natural disasters, such as hurricanes, usually have advanced
warnings that allow mitigation steps to be taken. Man-made events such as
damage to cable and/or fiber can affect networks without warning.
4.1.1 Activation
In the event of a disaster, Qwest's DR organization consults with the
in the event of a disaster, weeks bit organization consults with the

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ERT leaders of the affected business units to determine the appropriate level

of activation necessary to address the current adverse event.



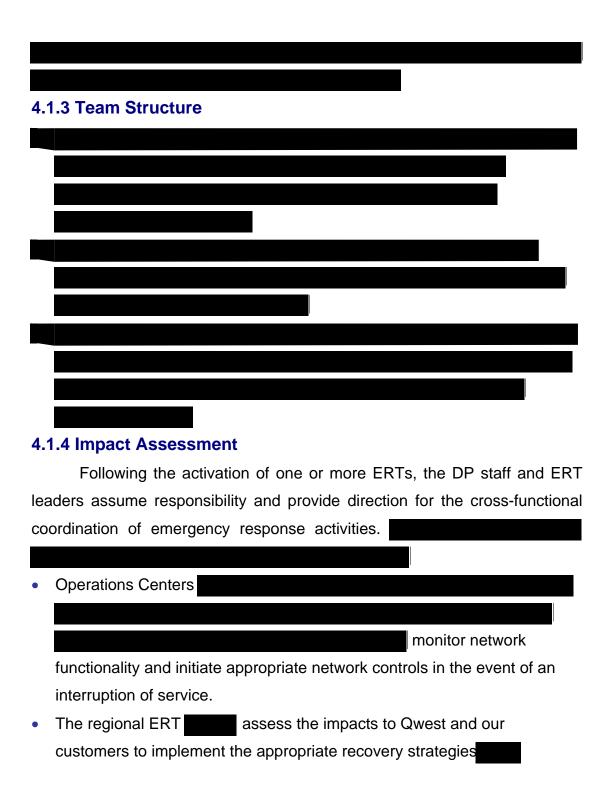




4.1.2 Emergency Response Structure

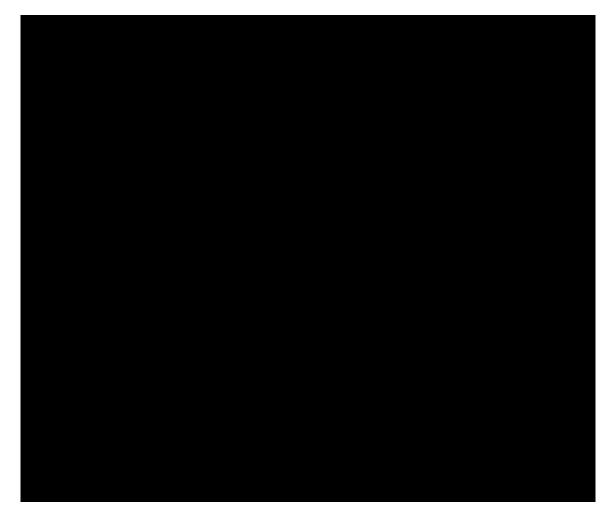
The emergency response structure has two le	vels and an executive
crisis team.	
	Events are
managed by EDT leaders	Events are
managed by ERT leaders	







Within minutes of being mobilized, the ERTs: convene and initiate damage assessments to identify impacts; execute BC/DR Plans, along with other necessary resources; determine the length of the outage and the time it will take to return to full recovery status; and communicate this information to internal and external clients until the problem or outage has been resolved.





4.1.5	Rapid	Emergency	Actions and	Coun	termeasures	Team

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4.1.6 Implementation of BC/DR Activities

Implementation of BC/DR activities is a team effort. All action plans to mitigate or eliminate adverse impacts are exercised by the ERTs.



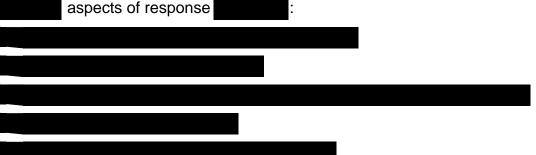


4.1.7 Transition to Normal Service

After an event has been addressed and before the ERTs stand down, systems and services are transitioned back to a normal state in a controlled way by:

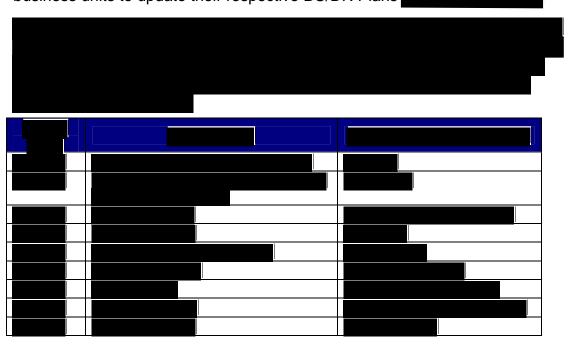
4.1.8 Resolution

Following ERT activation, the DP Organization schedules a formal debriefing with ERT leaders and team members, to assess improvements in the overall process and resolve identified gaps based on a review of the

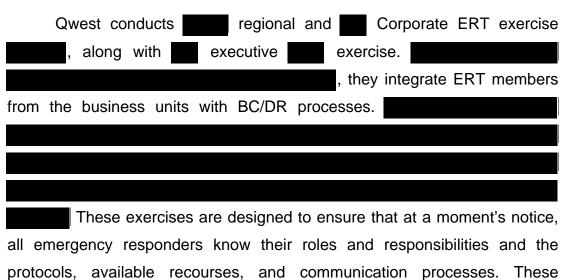




Based on the debriefing results, the DP Organization will incorporate improvements into overall plans, processes, and tools, and will work with business units to update their respective BC/DR Plans



4.2 EMERGENCY RESPONSE TEAM TESTING





exercises ensure employee safety and the expeditious, prioritized restoration
of affected critical functions.
Reports from these exercises
and tests are provided on a case-by-case basis to customers who request
this information. Upon completion of each exercise, we address issues that
have the potential to impact our customers.
4.2 ADDITIONAL DESCURCES FOR DECOVERY
4.3 ADDITIONAL RESOURCES FOR RECOVERY
Qwest implements industry-leading technologies and
practices to ensure Business Continuity and network reliability, all of which
are monitored 24x7x365 in network operations and management centers,
geographically dispersed across the country, and have built-in redundancy
and failover capabilities between centers.



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5.0 CRISIS COMMUNICATIONS

Qwest believes that effective, timely communications are critical to minimize the impacts of service-related disasters. In the event of a crisis,



Qwest's ERTs have the capability to immediately commun	nicate with each
other, with their customers, and with response teams assign	ned to the crisis
through other organizations.	
	Management is
notified and activates	as appropriate,
based on the nature of the event.	





5.1 GOVERNMENT EMERGENCY MANAGEMENT AGENCY **COMMUNICATIONS**



5.2 CUSTOMER COMMUNICATIONS

Qwest communicates with Agencies during disasters in several ways:



•	
	manage communications with Agencies in order to ensure that
	Agency requirements are supported in the overall emergency response
	process.

Qwest may determine that customer information may be effectively disseminated through media outlets. Qwest Media Relations will manage these communications.



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 As required in RFP Section C.3.3.2.1, Qwest will provide a dedicated Networx Disaster Recovery Liaison Officer, to interface with the Government's Networx PMO pertaining to disaster recovery or NS/EP.

5.3 INTERNAL EMPLOYEE COMMUNICATIONS

In the event of an emergency that necessitates a mass employee communication throughout the corporation or limited to a geographical region, Qwest's Corporate Internal Communications will develop and execute messaging via

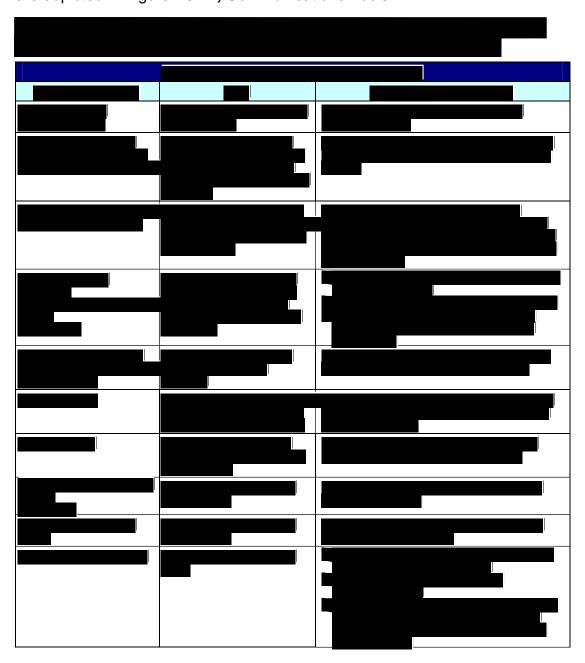
In addition to the preparedness and resolution steps outlined above, Qwest believes that effective, timely communications are critical to ensure that the impacts of service-related disasters are minimized. Through these timely communications, Qwest, the Government, and all Qwest customers affected by these disasters, will be able to put contingency plans in place.



5.4 COMMUNICATIONS TOOLS

To ensure an immediate response, Qwest uses a number of communications tools

These tools are depicted in Figure A3-14, Communications Tools.





6.0 RESTORATION PRIORITIES

In the event of a network outage that may affect Networx products and
services, Qwest has the operational network resources to allow affected
Agencies to operate at full data capacity or, depending upon the severity of
the damage, at partial capacity until full restoration of services.



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