

ESCAPE

ALL LIMITATIONS

UNITRENDS BACKUP & RECOVERY SOLUTIONS
AND DISASTER RECOVERY BEST PRACTICES:

TORNADO PREPAREDNESS

The ability of your business to respond to a disaster depends on how well your IT organization can address specific situations. While you can only plan for so much in the way of detail, you can understand and anticipate both the likelihood and ramifications of certain types of disasters, and use this knowledge to plan your response and thus expedite the disaster recovery process.

In this case, let's take a look at the threat of a tornado....



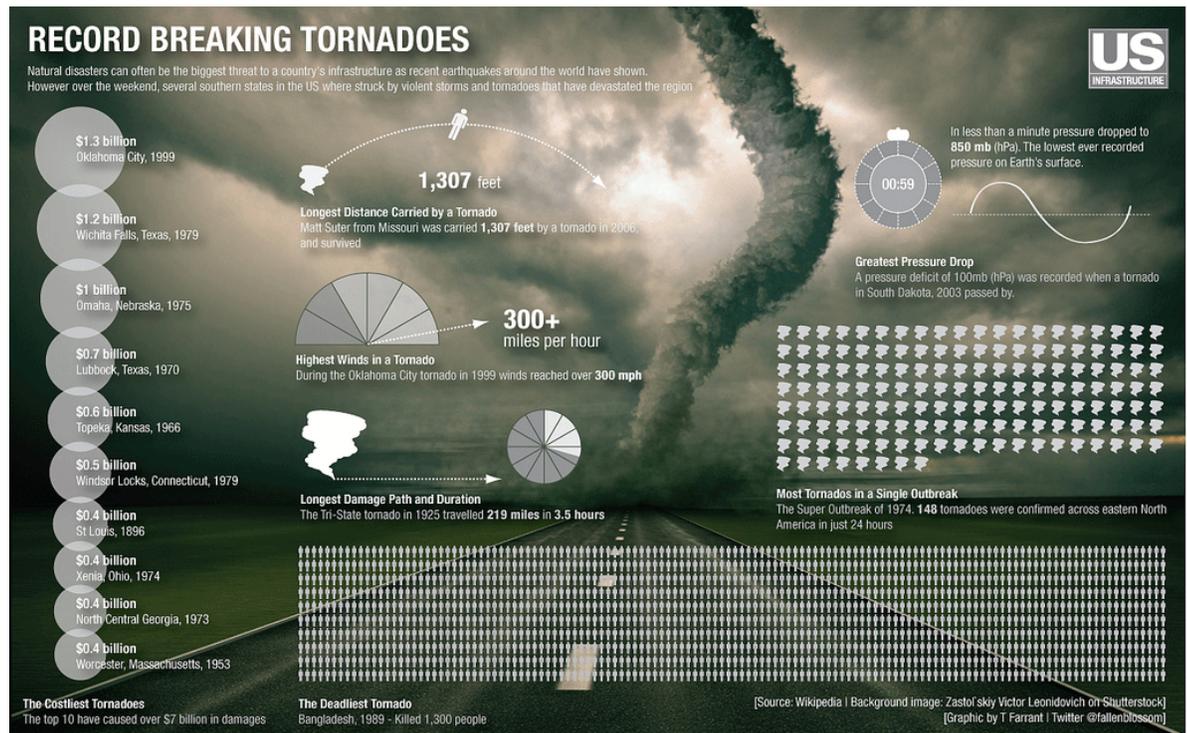
UNITRENDS BACKUP & RECOVERY SOLUTIONS AND DISASTER RECOVERY BEST PRACTICES: TORNADO PREPAREDNESS

ASSESSING THE RISK

FEMA states that, “Tornadoes are nature’s most violent storms. Spawned from powerful thunderstorms, tornadoes can cause fatalities and devastate a neighborhood in seconds. A tornado appears as a rotating, funnel-shaped cloud that extends from a thunderstorm to the ground with whirling winds that can reach 300 miles per hour. Damage paths can be in excess of one mile wide and 50 miles long. Every state is at some risk from this hazard. Some tornadoes are clearly visible, while rain or nearby low-hanging clouds obscure others. Occasionally, tornadoes develop so rapidly that little, if any, advance warning is possible. Before a tornado hits, the wind may die down and the air may become very still. A cloud of debris can mark the location of a tornado even if a funnel is not visible. Tornadoes generally occur near the trailing edge of a thunderstorm. It is not uncommon to see clear, sunlit skies behind a tornado.”

The National Weather Service recorded 936 tornadoes in 2012, with 206 occurring in April alone. The nature of a tornado makes preparing for it difficult, sometimes with mere minutes to spare before destruction takes place in catastrophic proportions.

In other words, it pays to be prepared.



This work is licensed under the Creative Commons Attribution 3.0 Unported License. To view a copy of this license, visit <http://creativecommons.org/licenses/by/3.0/> or send a letter to Creative Commons, 444 Castro Street, Suite 900, Mountain View, California, 94041, USA.

UNITRENDS BACKUP & RECOVERY SOLUTIONS AND DISASTER RECOVERY BEST PRACTICES: TORNADO PREPAREDNESS

Tornado Ramification	Unitrends Solution
Random and Sudden	Unitrends optimizes the backup window by completing each backup job before beginning deduplication. This means immediate protection for your data, making backups as current as possible for recovery.
Evacuation and Loss of Access	If you use on-premise rotational archiving (typically D2D2x with disk or tape), you need a plan in which your computer stays up when you can't get to it physically. If your area is evacuated but the tornado (or hurricane, or flood, or some other event) doesn't hit, you can rely on this primary backup solution with peace-of-mind, as long as your team ensures rotation of the media.
Destruction of Local Backups	Either of two Unitrends replication solutions can alleviate the pain of backups destroyed by tornado. D2D2C (Disk-to-Disk-to-Cloud) offers a quick method for both data storage and recovery, while D2D2D (where the disk can be eSATA connected or even SAN or NAS connected via iSCSI or CIFS/NFS protocols) provides the means for an alternative to cloud-based recovery.
The Need for Speed	<p>The downside of off-site recovery is the anticipated time-to-recover. To ease the pain, Unitrends can provide hot/cold or, even faster, hot/hot replication for Windows. A hot/cold scenario begins with data replication from an off-premise device to off-premise standby device, and then replicates to the recovery target. Recovery can also occur from the off-premise device to the off-premise standby device, which then ships next-day to the recovery site. In a hot/hot scenario, recovery from the remote site occurs directly to the recovery site.</p> <p>When a VMware or Windows system fails, your Unitrends appliance becomes the virtual host of the failed system. For VMware, the system recovers to a new virtual machine and your Unitrends appliance becomes the provisioned virtual storage provider. In the case of a Windows failure, the recovered Windows system runs directly on the Unitrends appliance. Recovery typically happens in less than five minutes.</p>

UNITRENDS BACKUP & RECOVERY SOLUTIONS AND DISASTER RECOVERY BEST PRACTICES: TORNADO PREPAREDNESS

CASE STUDY: TWISTER ANTICIPATION

Community Credit Union didn't want to take any chances with their financial information. With more than \$100 million in assets, the institution serves some 12,000 customers by providing financing for home improvement, education, and business ventures, among other loan products. Located in the U.S. region known as Tornado Alley, CCU made planning for twisters a primary focus of their disaster recovery strategy.

When CCU turned to Unitrends to help with their disaster recovery planning and technology, the resulting business impact analysis yielded the following key considerations on which the credit union acted:

- **Mirror Site**

Using a centralized approach for its branches, Community Credit Union equipped two facilities with identical data. CCU ensured that these data centers lay in a north-south arrangement (NOAA indicates tornadoes typically move southwest to northeast) of more than 30 miles apart, to ensure at least one facility would remain operational in the event that a tornado threat occurred.

- **Redundancy**

CCU worked with Unitrends to establish five layers of redundancy, from mirroring of data with SAN-to-disk backups, to snap shots of transaction data taken every four hours and stored on local servers within each.

- **Cross-Vaulting**

Unitrends provided the credit union with a cross-vaulting solution, using the Recovery-7 Series cross-vault appliances to provide two-way transfer between the financial institution's data centers. Advanced in-flight data deduplication optimizes WAN bandwidth between the two premises.

PREPARED: COMPLIMENTS OF UNITRENDS

With Unitrends, you can plan ahead and be ready at a moment's notice with a disaster recovery solution that stands up to the threat of a tornado. That solution includes these benefits:

- **Scale and Grow with your Business**

By leveraging existing investments such as tape, legacy servers, and storage, Unitrends maximizes your resource utilization while adapting to your data growth.

- **Single point of contact**

Your questions for data protection strategies are addressed by Unitrends with a US-based customer support team that boasts a 99% Net Promoter Score (NPS)-based customer satisfaction rate.

A 2012 study conducted by Ernst & Young found that companies with mature risk management practices outperformed their peers and generated the highest growth in revenue.

UNITRENDS BACKUP & RECOVERY SOLUTIONS AND DISASTER RECOVERY BEST PRACTICES: TORNADO PREPAREDNESS

- **Complete Protection**

Physical, virtual, and cloud-enabled protection preserves the data you need to shield from loss in the event of a disaster.

It makes good business sense to prepare for the unforeseen so that, should disaster strike, you can return to normal business operations as quickly and effortlessly as possible. You can rely on Unitrends and our 20+ years of expertise in data protection to help you do just that.

TRY UNITRENDS NOW FOR FREE!
NO LIMITS. FREE FOREVER. [DOWNLOAD NOW](#)



7 Technology Circle | Suite 100 | Columbia, SC 29203
866.359.5411 | sales@unitrends.com | www.unitrends.com
Copyright © 2012 Unitrends