UND Information Technology (IT) Incident Response Policy

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I. Reason for the Policy
The university network, information systems, and data are critical resources for accomplishing the mission of the University of North Dakota. All university users have an interest in the security of these resources, and share in the responsibility for protecting them. Prompt and consistent reporting of and response to IT incidents protects and preserves the integrity, availability, and privacy of data and IT resources and helps the university to comply with applicable law.

II. Applicability of the Policy
This policy applies to all members of the University of North Dakota community.

III. Policy Statement
Users and/or local support providers of IT resources must report all IT incidents promptly and to the appropriate party or office. If necessary, local support providers are responsible for containing, eradicating, and restoring the compromised system.

IV. Procedures
   a. Reporting and Classification
      An end user of an IT resource should report all suspected incidents to their local support provider, the UND IT Security Officer (ITSO), or the Information Technology Systems and Services (ITSS) helpdesk.

      Upon receiving a notification, or detecting an IT incident, the local support provider must determine if the incident is a major incident (see section V. Definitions).

      If the incident is not a major incident, the local support provider should submit a ticket to the ITSS helpdesk or verify a ticket has been submitted regarding the incident. The local support provider (with assistance, if necessary, from the ITSO, helpdesk, SIRT or local IT support) should then contain, eradicate, and restore the system as outlined in these procedures. If the incident involves the loss of a device, then containing, eradicating, and restoring are unnecessary.

      If the incident is a major incident, the local support provider must report the incident to the UND ITSO and the Data Steward and/or Unit Head/Dean. The ITSO will maintain a log of all reported major incidents recording the relevant information, including, but not limited to, the date of the incident, the College or Department affected, the type of private or confidential information involved (if any), a summary of the incident, any measures taken to
respond to the incident, and lessons learned. The local support provider (with assistance, if necessary, from the ITSO, helpdesk, SIRT or local IT support) should then contain, eradicate, and restore the system and perform follow-up as outlined in these procedures. If the major incident involves the loss of a device, then containing, eradicating, and restoring are unnecessary.

If necessary, the ITSO will work with the local support provider and the UND Security Incident Response Team (SIRT) to determine whether or not private or confidential data is involved in the incident, and to what level. Based on the results of this determination, the ITSO and CIO will decide whether or not to convene the Information Security Incident Response Team (ISIRT).

b. Containment
Ideally, the affected system(s) should be removed from the network, either by physically removing the network cable or working with the SIRT to disable network access. If the local support provider determines the system is critical to university business, then he or she should work with the SIRT to isolate the system in such a way that university business can be performed while still protecting other areas of campus and the data held on the system.

c. Eradication
If the incident is a major incident, the system should not be altered until the local support provider reports the incident, receives guidance from the ITSO, and creates a forensic image to assist in any necessary investigation. The local support provider should then determine the cause of the incident and, if appropriate, remove the cause of the incident. If the eradication is unsuccessful or the compromise/infection reoccurs within two days, the local support provider should notify the ITSO and await further instructions.

d. Restoration
If the eradication is successful, the local support provider should clean and restore the data and availability of the affected system and return the system to normal operations. If necessary, the system should be restored from backup and appropriate patches should be applied and server hardening should be performed to prevent future incidents. Once the system is returned to normal operations, the local support provider should perform a backup of the system and then monitor the system for a reoccurrence of the incident.

e. Follow-Up
If a major incident, the local support provider should notify the ITSO of the resolution to the incident. The ITSO will work with the local support provider to collect lessons learned and develop best practices to publish and share with appropriate individuals.

V. Definitions

Confidential Information
Confidential Information is information that is not to be publicly disclosed. The disclosure, use, or destruction of Confidential Information can have adverse affects on the UND and possibly carry significant civil, fiscal, or criminal liability. This designation is used for highly sensitive information such as open legal investigations, sealed bids, research activity, social security numbers, etc., whose access is restricted to selected, authorized employees.

Data Steward
The individual who has ultimate responsibility and ownership for a particular set of data (e.g. a department head, dean, or V.P.)

Forensic Image
The process of making a duplicate of the computer system hard drive(s) using some form of hardware write protection, such as a hardware write blocker, to ensure no writes are made to the original drive. There are two goals when making an image:
   1. Completeness (imaging all of the information)
2. Accuracy (copying it all correctly)

**Information Security Incident Response Team (ISIRT)**

The role of the UND ISIRT is to coordinate the University response to breaches of security involving confidential or private information. The responsibilities of the ISIRT include, but are not limited to:

- Notifying affected constituents of the incident
- Coordinating responses to public inquiries
- Making the decision to involve outside entities, including law enforcement agencies and computer forensic experts
- Discussing, reviewing, and documenting any lessons learned from the security breach

The ISIRT reports to the Provost, and is comprised of members from the following areas:

- Chief Information Officer (CIO)
- Office of General Counsel
- University Relations
- Finance & Operations
- Campus Safety and Security/Risk Management
- University Police
- IT Security Officer
- Data Steward (incident specific)
- Unit Head/Dean (incident specific)
- Local Support Provider (incident specific)

**IT Incident**

An activity or event that results in damage to, misuse of, or loss of, an IT resource. Incidents include but are not limited to:

- Loss of a computing device (misplaced, stolen, vandalized)
- Detection of a malicious program, such as a virus, worm, Trojan horse, keystroke logger, rootkit, remote control bot, etc.
- Detection of unauthorized users, or users with unauthorized escalated privileges.
- Detection of a critical or widespread vulnerability or misconfiguration that might lead to a compromise affecting the confidentiality, integrity, or availability of university systems or data.

**IT Resource**

A computing asset provided by the University to further its mission. Examples include, but are not limited to, network bandwidth, networking equipment, workstations, computer systems, data, databases, servers, and printers.

**Local Support Provider**

An individual or group with principal responsibility for the installation, configuration, security, and maintenance of an IT resource. When there is no formally identified local support provider (e.g., a personally owned computer used from home to connect to the UND network), the user is the local support provider.

**Major Incident**

An IT incident which:

- Involves a device or system containing private (see definition) or
confidential (see definition) data

- Threatens the business continuity of the college, department, or university
- Affects multiple systems or servers
- Involves the violation of North Dakota state or U.S. federal law

**Private Information**

Private Information includes information that UND is under legal or contractual obligation to protect such as FERPA, HIPAA or GLBA data. Examples would include Employee ID numbers, birth dates, location of assets, donors, gender, etc.

**Security Incident Response Team (SIRT)**

The UND SIRT consists of individuals from various departments within ITSS including Network Services, Server Administration, and IT Security. The SIRT reports to the Director of ITSS who assigns the team to respond to an incident:

- Which requires coordination across multiple departments
- When a single department lacks the resources to respond
- When the local support provider requests assistance
- When the ISIRT determines involvement is necessary

**VI. Related Documents/Policies**

- UND Student Acceptable Use Policy
- NDUS Procedure 1901.2 Computer and Network Usage
- NDUS Data Classification and Information Technology Security Standards
- ConnectND Procedure for Data Protection and Incident Response in Higher Education

**VII. Effective Dates**

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Approved: Sept 24, 2007
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**VIII. Contacts**

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<tr>
<th>Contact</th>
<th>Phone</th>
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<tbody>
<tr>
<td>UND IT Security Officer (ITSO)</td>
<td>777-3587</td>
</tr>
<tr>
<td>UND ITSS Helpdesk</td>
<td>777-2222</td>
</tr>
<tr>
<td>UND Chief Information Officer (CIO)</td>
<td>777-4328</td>
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