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<b>Title:</b>	Mainframe Database Backup Schedule Standard		
<b>Description:</b>	This document is the operating standard for the Mainframe database backup schedule.		

## Mainframe Database Backup Schedule Standard

1. General Statement of Purpose
  - 1.1. The purpose of this document is to outline the database backup schedule.
2. Scope
  - 2.1. This document covers the mainframe supported databases.
3. Discipline
  - 3.1. Technical Standards
4. Terms and Definitions
  - 4.1. z/VM/Linux – a Linux operating system that runs on an IBM mainframe platform.
  - 4.2. z/OS – an operating system that runs on an IBM mainframe platform.
5. Instructions
  - 5.1. Oracle running on z/VM/Linux – Backups are run weekly.
    - 5.1.1. When creating a physical backup of the database, whether full or partial, the Oracle RMAN utility is used. This tool, which was developed by Oracle and is included with the database installation, is tightly integrated with the database and performs block-level integrity checks as the data is transferred to the backup medium. Oracle database can use RMAN and its internal block-level headers to attempt to recover corrupted blocks using previously copied data. Blocks that are marked as corrupt and unrecoverable are not accessed by the database and are not copied during the backup, thus ensuring the integrity of the backup copy.
  - 5.2. DB2 running under z/OS – Image Copies are run weekly.
    - 5.2.1. The COPY utility is used to take secure images of table spaces and index spaces to allow for the recovery of data in the event of data loss or corruption.
    - 5.2.2. The COPY utility also checks the integrity of data pages as it is copying the table space or index space.
  - 5.3. IMS running under z/OS – Image Copies (with pointer checker) are run weekly.
    - 5.3.1. The Image Copy utility is used to take secure images of the database to allow for the recovery of data in the event of data loss or corruption.
    - 5.3.2. The Pointer Checker utility is run as part of the Image Copy and checks the integrity of the data.
6. Roles and Responsibilities
  - 6.1. Database Administrator – Verifies backups are scheduled via the appropriate scheduling system and verifies weekly that jobs are validated.