Microsoft Fabric Resource Naming Conventions

This document defines standard naming conventions for all Microsoft Fabric resources in the context of the Metadata-Driven Framework. Consistent naming ensures maintainability, discoverability, and alignment across development, test, and production environments.  
  
General Principles:  
- Use PascalCase for logical object names (pipelines, workspaces, reports).  
- Use snake\_case for physical storage paths.  
- Append environment suffix (\_Dev, \_Test, \_Prod).  
- Avoid spaces and special characters. Use underscores (\_) as delimiters.

# 1. Workspaces

Format: WS\_<Domain>\_<Env>  
Examples:  
- WS\_Finance\_Prod  
- WS\_Sales\_Dev

# 2. Lakehouses & Warehouses

Format: <Type>\_<Domain>\_<Purpose>\_<Env>  
Where <Type> is LH (Lakehouse) or WH (Warehouse).  
Examples:  
- LH\_Sales\_Ingest\_Dev  
- WH\_Finance\_Curated\_Prod

# 3. Pipelines

Pipeline naming aligns with the metadata-driven orchestration model (grandparent → parent → child).  
  
Formats:  
- Grandparent: PL\_GRP\_<AppName>\_<Env>  
- Parent: PL\_PAR\_<StageName>\_<Env>  
- Child: PL\_CHD\_<PipelineName>\_<Env>  
- Source-specific (exceptional cases): PL\_SRC\_<SourceName>\_<Env>  
  
Examples:  
- PL\_GRP\_MasterETL\_Prod  
- PL\_PAR\_Ingest\_Dev  
- PL\_CHD\_Customers\_Prod  
- PL\_SRC\_SAP\_Dev

# 4. Metadata Tables

Prefix all metadata tables with MD\_.  
Examples:  
- MD\_tbl\_Applications  
- MD\_tbl\_Sources  
- MD\_tbl\_Pipeline  
- MD\_tbl\_ExecutionHistoryETL

# 5. Connections

Connections define links to external sources. Follow this strict format:  
Format: Conn\_<SourceName>\_<DBTYPE>\_<Env>  
Examples:  
- Conn\_SAP\_HANA\_Prod  
- Conn\_Salesforce\_API\_Dev  
- Conn\_SQLServer\_ERP\_Test

# 6. Dataflows & Datasets

Format: DF\_<Domain>\_<Entity>\_<Env> for Dataflows.  
Format: DS\_<Domain>\_<Entity>\_<Env> for Datasets.  
Examples:  
- DF\_Sales\_Orders\_Prod  
- DS\_Finance\_GL\_Dev

# 7. Notebooks & Reports

Format: NB\_<Purpose>\_<Domain>\_<Env> for Notebooks.  
Format: RP\_<Domain>\_<Subject>\_<Env> for Reports.  
Examples:  
- NB\_DataQuality\_Sales\_Dev  
- RP\_Finance\_ProfitLoss\_Prod

# 8. Lakehouse File/Folder Structure

Ingestion follows a structured partitioning scheme:  
xx\_sourcename/Year\_yyyy/Month\_mm/Day\_dd/TableName\_yyyy\_mm\_dd\_hh\_mm\_ss.parquet  
  
Where:  
- xx = zero-padded source order number from metadata.  
- sourcename = name from tbl\_sources.  
- yyyy/mm/dd = partition folders by date.  
- TableName\_timestamp = uniquely identifies the file.  
  
Example:  
03\_Customers/Year\_2025/Month\_09/Day\_18/Customers\_2025\_09\_18\_12\_30\_00.parquet

# 9. Environment Suffixes

Use the following suffixes for all resources:  
- \_Dev for development  
- \_Test for test/UAT  
- \_Prod for production  
Examples:  
- PL\_GRP\_MasterETL\_Dev  
- Conn\_SAP\_HANA\_Prod

End of document.