Skill Acme Naming Conventions

Worked example: Acme Corp's mandatory 4-level tag hierarchy, imperial units, description format, and standard equipment templates — published as a user-created AI skill.

Skill Frontmatter

```
---
title: "Acme Corp — Tag Naming and Structure Standards"
tags: [naming, convention, tags, structure, standard, acme, company]
description: "Acme Corp company standard for UNS tag naming, folder hierarchy, data types, and descriptions.
Apply to all new Acme solutions."
version: "2.1"
author: "Acme Corp Engineering"
---
```

Company-specific naming conventions for Acme Corp: mandatory 4-level tag hierarchy, imperial units, description format standards, and standard equipment tag templates. This is a user-created skill example showing how integrators enforce company standards.

> This is an example of a **user-created skill**. It shows how an integrator or end-user would create a company-specific skill to enforce their naming standards. To create your own, see the Skill Authoring Guide.

What This Skill Does

This skill defines Acme Corp's mandatory tag naming conventions. All new solutions for Acme plants must follow this structure. When the user asks to create tags, apply these rules automatically.

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When to Use This Skill

Use this skill when:

- Creating tags for any Acme Corp solution
- The user says "create tags", "add tags", or "set up the namespace"
- Reviewing or refactoring an existing Acme solution's tag structure

Tag Hierarchy

All Acme tags follow this 4-level hierarchy:

Tag Naming Pattern

```
{Site}/{Unit}/{Equipment}/{Measurement}
```

Examples:

- `Houston/Distillation/Column1/Temperature`
- `Houston/Distillation/Column1/Pressure`
- `Houston/Utilities/Boiler2/SteamFlow`
- `Baytown/Cracking/Reactor3/CatalystLevel`

Rules:

Level	Description	Examples
Site	City name	Houston, Baytown, Beaumont
Unit	Process unit name	Distillation, Cracking, Utilities, Storage
Equipment	Equipment ID with number suffix	Column1, Pump3, Boiler2
Measurement	What is measured	Temperature, Pressure, Level, Flow, Status, Speed

Never use:

- Abbreviations in measurement names (use `Temperature` not `Temp`)
- Underscores (use PascalCase for multi-word names: `SteamFlow` not `Steam_Flow`)
- Generic names like `Tag1`, `Analog1`, `Value`

Data Type Standards

Measurement Type	DataType	Unit	Example
Temperature	Double	°F	350.5
Pressure	Double	PSI	125.3
Level	Double	%	67.2
Flow	Double	GPM	1200.0
Speed	Double	RPM	3600.0
Status	Integer	enum	0=Off, 1=Running, 2=Fault
Command	Boolean	—	True/False
Setpoint	Double	same as measurement	350.0

Important: Acme uses imperial units (°F, PSI, GPM), not metric. All tag descriptions must include the unit.

Description Format

Every tag must have a description following this format:

```
{Equipment full name} {measurement} in {unit}
```

Examples:

- "Distillation Column 1 temperature in °F"
- "Boiler 2 steam flow rate in GPM"
- "Cracking Reactor 3 catalyst level in %"

Example: Creating Tags for a New Pump

When the user asks to add tags for a pump, create this standard set:

Error rendering macro 'code': Invalid value specified for parameter 'com.atlassian.confluence.ext.code.render.InvalidValueException'

```
{
  "table_type": "UnsTags",
  "data": [
    { "Name": "{Site}/{Unit}/Pump{N}/Status",            "DataType": "Integer", "Description": "{Unit} Pump {N}
status (0=Off, 1=Running, 2=Fault)" },
    { "Name": "{Site}/{Unit}/Pump{N}/Speed",             "DataType": "Double",  "Description": "{Unit} Pump {N}
speed in RPM" },
    { "Name": "{Site}/{Unit}/Pump{N}/DischargePressure", "DataType": "Double",  "Description": "{Unit} Pump {N}
discharge pressure in PSI" },
    { "Name": "{Site}/{Unit}/Pump{N}/SuctionPressure",   "DataType": "Double",  "Description": "{Unit} Pump {N}
suction pressure in PSI" },
    { "Name": "{Site}/{Unit}/Pump{N}/Flow",              "DataType": "Double",  "Description": "{Unit} Pump {N}
flow rate in GPM" },
    { "Name": "{Site}/{Unit}/Pump{N}/BearingTemp",       "DataType": "Double",  "Description": "{Unit} Pump {N}
bearing temperature in °F" },
    { "Name": "{Site}/{Unit}/Pump{N}/RunHours",          "DataType": "Double",  "Description": "{Unit} Pump {N}
cumulative run hours" },
    { "Name": "{Site}/{Unit}/Pump{N}/StartCommand",      "DataType": "Boolean", "Description": "{Unit} Pump {N}
start command" },
    { "Name": "{Site}/{Unit}/Pump{N}/StopCommand",       "DataType": "Boolean", "Description": "{Unit} Pump {N}
stop command" }
  ]
}
```

Ask the user for Site, Unit, and pump number, then substitute into the template.

Alarm Naming Convention

Alarm items follow this pattern:

```
{Site}_{Unit}_{Equipment}_{Condition}
```

Example: `Houston_Distillation_Column1_TempHigh`

Verification

After creating tags, verify:

1. All tags follow the 4-level hierarchy
2. No abbreviations in measurement names
3. All descriptions include units
4. DataTypes match the standard table above
5. Imperial units used (not metric)

See also

- Skill Authoring Guide. How to write, test, and publish your own custom skill.
- Skill Template Reference. Canonical skill-page template to duplicate.