SNPI Jira Creation Agent

Here’s the **updated blueprint** with **ticket type details** and **future enhancements**:

**Project Definition: Excel to JIRA Ticket Agent**

**What is it?**

A Python-based automation tool that:

* Reads an Excel export (or future: Smartsheet) with part release data.
* Groups rows by **SCA#** and creates **Epic-level JIRA tickets** in a **Service NPI (SNPI)** project.
* Auto-populates fields in a **pre-determined format** and updates the Excel with the new JIRA links for traceability.

**Goals**

**Primary Goals:**

1. Automate creation of **Epic-level JIRA tickets** for part releases.
2. Group rows by **SCA#** and prevent duplicates by checking existing Jira#.
3. Update the original Excel with JIRA ticket links.

**Secondary Goals (Future):**

* Read data directly from Smartsheet (no Excel export step).
* Auto-mark child work item **(Summary: Part Status – Design)** as completed once parent Epic is created.
* Assign tasks automatically to SMEs based on name mapping in Excel/Smartsheet.
* Validate inputs and notify if critical fields are missing.

**MVP Scope**

**Ticket Type Details**

* **Project:** Service NPI (SNPI)
* **Work Type:** Epic
* **Request Type:** Part Status

**Excel Columns (Input File)**

PN, Title, SCA#, SCA title, Jira# (skip rows with existing value), Disposition, Date In, Date Out, Notes

**Workflow**

1. **Read Input**
   * Use pandas to load Excel file.
2. **Filter & Group**
   * Ignore rows where Jira# is not empty.
   * Group remaining rows by SCA#.
3. **Build JIRA Ticket**
   * Create **Epic** ticket in SNPI project with:
     + **Request Type:** Part Status
     + **Summary:**
     + Part Status | Gravity | {SCA Title}
     + **Description:** Include SCA#, and a markdown table:
     + SCA#: <SCA#>
     + | PN | Title | Disposition | Date In | Date Out |
     + |----|-------|-------------|---------|----------|
     + (populate grouped rows here)
4. **Create Ticket via API**
   * Use jira Python library or REST API.
   * Retrieve created Epic’s key (e.g., SNPI-2345).
5. **Write Back**
   * Add JIRA key to Jira# column for all rows with the same SCA#.
   * Save updated Excel.

**Future Enhancements**

1. **Read Directly from Smartsheet**
   * Replace Excel step with Smartsheet API integration for real-time updates.
2. **Mark Child Work Items**
   * Automatically mark child task with summary Part Status: Design as **Completed** after Epic creation.
3. **Auto Assignment**
   * Assign tasks based on SME names provided in Excel/Smartsheet mapping columns.
4. **Additional Features**
   * Continuous monitoring (watcher service) for new files.
   * Bulk processing for multiple SCAs at once.
   * Sync JIRA statuses back into the source file (Excel/Smartsheet).