SDC & COMMS – Agent Comms I/O File Handoff Protocol

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1. Problem Summary

When a report or artifact is generated during a ChatGPT session, it exists only within that session's ephemeral sandbox. If not exported, it is automatically deleted when the session ends or times out—forcing regeneration and manual download.

2. Objective

Provide a reliable, repeatable process allowing a generating chat (e.g., SDC & COMMS project chat) to hand off a file to Agent Comms I/O, who can then move the file to the Public Project Files directory for persistent access and later download.

3. Roles

Generating Agent: Creates the report or data file inside sandbox.
Agent Comms I/O: Receives file payloads and posts them to public directories.
User (Commander): Initiates handoff authorization or requests manual recovery.

4. Required Conditions

1. The generating chat must still be active when the handoff command is issued.
2. File must be transmitted via a persistent endpoint (Drive API, NAS mount, or AgentKit handoff).
3. File format must be finalized (PDF, MD, DOCX, CSV, etc.).
4. Metadata (title, checksum, project tag) must accompany payload.

5. Standard Handoff Command (Sandbox → Agent Comms I/O)

```
/handoff
  recipient: Agent_Comms_IO
  file: <attached file or link>
  metadata:
    project: "SDC & COMMS"
    classification: "Public"
    description: "<brief summary>"
```

6. Agent Comms I/O Actions

1. Verify payload integrity (checksum + size > 0).
2. Rename file using format: YYYYMMDD___v1.ext
3. Move file to: /SDC_COMMS/Public_Project_Files/
4. Log event (timestamp, origin chat ID, checksum, link).
5. Reply with permanent Drive/NAS download link.

7. Fallback Procedure

If a file was not exported before sandbox timeout, Agent Comms I/O cannot recover it. The generating agent must regenerate and handoff immediately upon creation using the 'Generate → Export → Handoff to Comms I/O' command.

8. Automation Snippet

```
{ "nodes": [ {"name": "Export_Report","type": "chatgpt-report","parameters":
{"format": "pdf"}}, {"name": "Handoff_to_CommsIO","type":
"httpRequest","parameters": { "method": "POST","url":
"https://agentkit.garyspearagency.com/handoff", "body": {"agent":
"Comms_IO","project": "SDC & COMMS","classification": "Public", "file_url":
"={{$json['exportedFileUrl']}}"} }} ] }
```

9. Verification & Audit

Checksums logged for all transfers. Public File Directory mirrored nightly to NAS backup. Timeout Log reviewed weekly; any repeat offenders flagged for automation upgrade.

10. Transition Plan

Once the new MCP-NAS Service comes online, replace this procedure with direct NAS API writes. Update this document to Rev 1.0 and archive the interim protocol.

11. Summary

Step 1: Generator – Produce report
Step 2: Generator – Execute /handoff to Agent Comms I/O
Step 3: Comms I/O – Validate, rename, store
Step 4: Comms I/O – Return permanent link
Step 5: System – Mirror to NAS backup