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from typing import Callable, List, Optional, Union
```

```
from swarms.structs.agent import Agent
from swarms.utils.loguru_logger import initialize_logger
logger = initialize_logger(log_folder="swarm_reliability_checks")
def reliability_check(
  agents: List[Union[Agent, Callable]],
  max_loops: int,
  name: Optional[str] = None,
  description: Optional[str] = None,
  flow: Optional[str] = None,
) -> None:
  ....
  Performs reliability checks on swarm configuration parameters.
  Args:
     agents: List of Agent objects or callables that will be executed
     max_loops: Maximum number of execution loops
     name: Name identifier for the swarm
     description: Description of the swarm's purpose
```

Raises:

ValueError: If any parameters fail validation checks

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TypeError: If parameters are of incorrect type
logger.info("Initializing swarm reliability checks")
# Type checking
if not isinstance(agents, list):
  raise TypeError("agents parameter must be a list")
if not isinstance(max_loops, int):
  raise TypeError("max_loops must be an integer")
# Validate agents
if not agents:
  raise ValueError("Agents list cannot be empty")
for i, agent in enumerate(agents):
  if not isinstance(agent, (Agent, Callable)):
     raise TypeError(
       f"Agent at index {i} must be an Agent instance or Callable"
     )
# Validate max_loops
if max_loops <= 0:
  raise ValueError("max_loops must be greater than 0")
if max_loops > 1000:
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logger.warning(
     "Large max_loops value detected. This may impact performance."
  )
# Validate name
if name is None:
  raise ValueError("name parameter is required")
if not isinstance(name, str):
  raise TypeError("name must be a string")
if len(name.strip()) == 0:
  raise ValueError("name cannot be empty or just whitespace")
# Validate description
if description is None:
  raise ValueError("description parameter is required")
if not isinstance(description, str):
  raise TypeError("description must be a string")
if len(description.strip()) == 0:
  raise ValueError(
     "description cannot be empty or just whitespace"
  )
# Validate flow
if flow is None:
  raise ValueError("flow parameter is required")
if not isinstance(flow, str):
```

raise TypeError("flow must be a string")

logger.info("All reliability checks passed successfully")