Flow Designer

Flow Designer is a Now Platform® feature that enables process owners to automate work. Build multi-step flows from reusable components without having to code.

Benefits of Flow Designer

Automate flows for everyone

Empower business users with codeless flow components built for reuse. Boost productivity through flow generation based on text inputs.

Integrate third-party services

Link end-to-end digital workflows to popular business apps with ready-made Integration Hub spokes.

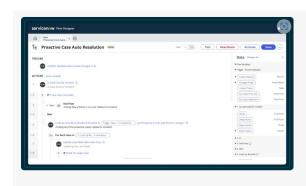
Accelerate development

Extend ServiceNow[®] workflows and create new ones with out-of-the-box, reusable flow components.

Improve flow visibility

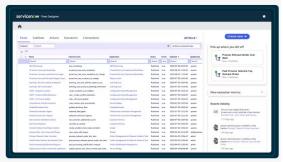
Promote collaboration by inviting process stakeholders to review flows with no change risk.

Features of Flow Designer



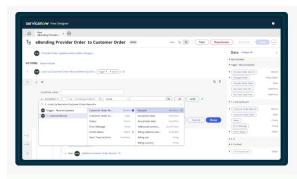
Codeless automation

Use flowchart style diagramming to build automated process flows $\mbox{easily}.$



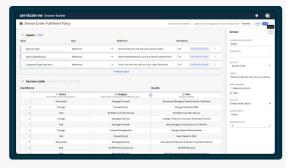
Application-specific flow actions

Apply application-specific flow actions to extend and create conditional, trigger-based workflows.



No-code data management tools

Build flows with no-code tools and generative Al. View complex structured data in a graphical interface.



Decision builder

Empower business users to manage complex decision logic independently of the flow design.

Additional features

Role-based flow management

Create flows that run with their own roles, so users can run flows they normally could not access.

Domain-separated flows

Create flows and actions in multitenant environments, a feature ideal for MSPs and large enterprises.

Action designer

Publish custom flow actions. Reuse script to automate tasks, remediate events, and simplify upgrades.

Dynamic subflow

Unlock sophisticated use cases with dynamic subflows. Trigger actions based on run-time parameters.

The Washington release of ServiceNow's Flow Designer has a number of new features, including:

- Auto-save: Saves work in real time
- Undo and redo limits: Limits the number of times you can undo and redo actions
- Workflow event capability: Allows flows to continue from outside the flow
- Flow try catch block: Allows a flow to continue running when an error occurs within a flow logic block
- Cloned records: Allows users to duplicate records with ease
- Generative AI: Allows users to build multi-step flows from a flow description

Washington Release Features

There are three types of Trigger Conditions:

- 1. Record Based
- 2. Schedule Based
- 3. Application Based

Actions: Actions are the set of operations which can be reused again and again to automate the flow without using code. These actions cannot be edited.

Core Action: Core actions are the pre defined actions(set of operations) which is provided by the ServiceNow.

Flow Designer provides a set of core actions to automate Now Platform processes, such as Ask for Approval, Create Task, Delete Record, etc.

Spokes: A spoke is a scoped application containing Flow Designer content dedicated to a particular application or record type. For example, the ITSM spoke contains actions for managing task records, such as the Create Task action. Spokes are activated when their parent application is activated.

Every time an action is added to a flow, Data Pills are created to store the variables that the action generates. The data pills also store any other information the action may require access to. The data stored in the pills can then be used in subsequent actions.



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Inline Scripts: Code can be written within the flow or action to build values. Format conversions, data transformations, or math operations are common examples. (We use code)

Transform Functions: Transform functions provide a way to return a processed version of an input string. (we don't use code instead we use pre-build functions).

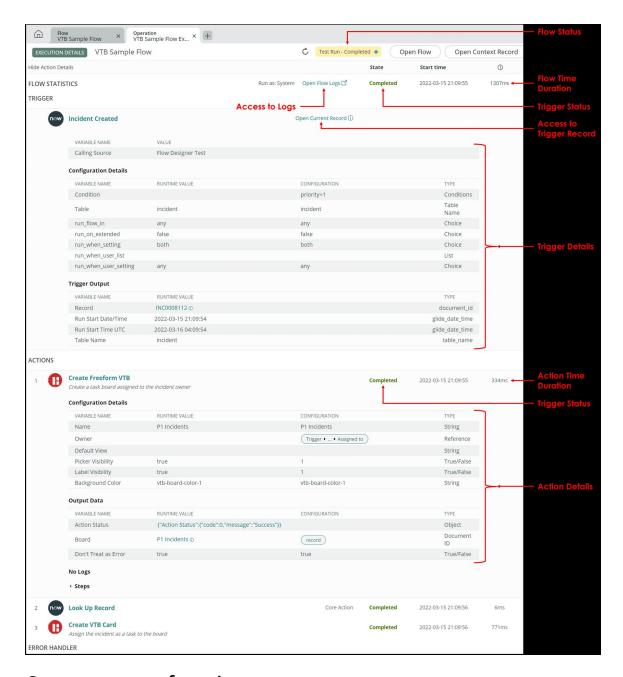
Test a Flow

You can view runtime information about a flow right in the design environment.

Open an Execution record to review details such as current state, actions run, and values produced. Related records can be opened in the design environment or a new browser tab.

Multiple tests can be run against the same test record, eliminating the need for multiple test records.

Flow Execution Details



Components of testing:

Calling source

The calling source lists what initiated a flow or subflow.

Flow Designer Test: When you select the Test option from the Flow Designer interface

CRUD Trigger: When the record-based trigger conditions are met

Date Trigger: When the schedule-based trigger conditions are met

Metric Trigger: When the MetricBase trigger conditions of a MetricBase are met

Service Catalog Trigger: When a Service Catalog item was requested

Flow state

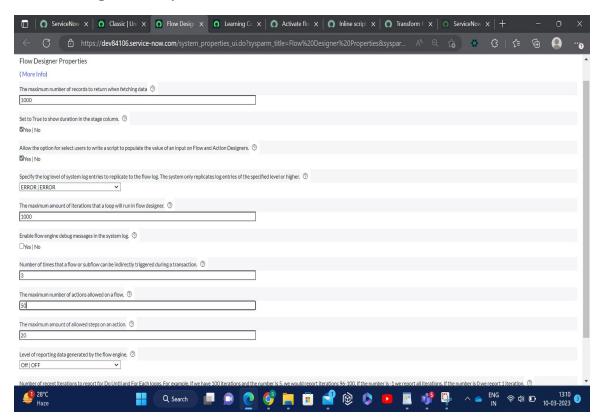
All active flows are in one of these three states:

Completed: This indicates that the flow successfully ran all actions. The flow statistics display configuration and run-time details for each action.

Waiting: This indicates that the flow paused on an action that is waiting for some condition to be met before continuing. Flows in the Waiting state display a Cancel Flow UI action in the header.

Error: This indicates that the flow stopped executing due to an error. Flows in the Error state display a Go to error UI action in the header.

Flow Designer Properties:



What is Flow Logic?

Flows may contain flow logic to specify conditional or repeated actions.

