

— A White Paper by Jupitice —

Next-Generation End-to-End Digital Preliminary Inquiry System



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The Problem Statement

In the wake of the **Bharatiya Nagarik Suraksha (Second) Sanhita of 2023**, the legal landscape in India witnessed a transformative shift with the enforcement of **section 173(1)(i)**, mandating the completion and submission of Preliminary Inquiries by the police within a stringent time frame of **14 days**. Along with the Bharatiya Nagarik Suraksha (Second) Sanhita of 2023, the **Supreme Court of India and other High Courts** have instructed the Police of all states to complete the preliminary inquiries within the stipulated timeline citing the '**Lalita Kumari Vs. Government of UP and Others**'. This landmark judgment also underscores the imperative for a swift and efficient administration of justice, necessitating a departure from archaic paper-based and manual procedures to embrace a digital paradigm.

However, in the contemporary law enforcement landscape, Inquiry Officers (IOs) and ground-level police personnel often face significant challenges due to **inadequate computer proficiency, particularly in typing skills** required for preparing Inquiry reports. This deficiency exacerbates the already burdensome process of conducting inquiries, as outlined in the Preliminary Inquiry guidelines, which necessitate completion within a strict 14-day timeframe.

The failure to adhere to these timelines not only complicates ongoing cases but also

exposes the police department to potential legal repercussions, as courts may take stringent actions against non-compliance.

Hence, recognizing the impending crisis and the need to alleviate the strain on IOs, a digital solution emerges as a vital imperative. Embracing digital solutions is not merely an option but an imperative step towards modernizing and optimising the functioning of law enforcement agencies in the digital age.



Challenges in the Current Preliminary Inquiry System

2.1 At IO Level

- | | | | |
|----|---|----|--|
| 01 | Heavy manual typing/data entry work | 13 | In-person meetings for recording statements |
| 02 | Complex procedure of recording statements | 14 | Manually writing statements on paper on the spot |
| 03 | Writing the statements while also analyzing & asking requisite follow-up questions | 15 | Manual Typing of Handwritten Statements in a Computer for Digitalisation |
| 04 | Manual organization of documents once drafted | 16 | Physical collection of information & documents in folders |
| 05 | Sending postal summons/reminders manually | 17 | Physical sharing of information & documents |
| 06 | Duplication of Tasks for the sake of digitisation | 18 | Higher possibility of errors in recording and record keeping |
| 07 | Ineffective & inefficient collaboration | 19 | Ineffective & inefficient collaboration |
| 08 | Missing dates & time | 20 | Conflicting date & time |
| 09 | Scheduling delays | 21 | Complex & time-consuming Inquiry report preparation |
| 10 | Requirement to work from desk | 22 | Complaint records only accessible from desk |
| 11 | Searching within complaint records is time-consuming and error-prone | 23 | No tracking of summon non-compliance |
| 12 | Possibility of loss of information & records due to natural disasters, mistakes or malice | 24 | Difficult to ensure complaint record confidentiality |

2.2 At Supervisory Level

- 01 Lack of real-time monitoring
- 02 Lack of allocation of cases based on Specialisation & estimation of surplus capacity
- 03 Lack of Collaborations
- 04 No Instant Decision Making or recommendation for required changes in the Inquiry process in the absence of centralised data
- 05 Lack of Business Intelligence & Data Analysis
- 06 Adjustment of last-minute changes
- 07 Tedious & Inefficient Allocation of IOs
- 08 Poor Time Management
- 09 Non-Accessibility from Anywhere, Anytime
- 10 Slow Turn Around Time of Inquiry Reports
 - Integration with other Systems
 - No Effective & Instant Visibility of Complaint Status & Pendency
- 11 Prone to Data Security & Privacy Issues



2.3 At Complainant & Witness Level

01

Physical Visits for recording of statements, submission of information, adjournment etc.

02

No Reminders & Notifications

03

No Ability to Tracking

04

Inconvenience in evidence and statement submission process

05

Possibility of Loss of Information, Documents & Privacy

06

Delays

07

No seamless review initiation process



Time-Sensitive Processes & Tasks

- 01 Handwritten Statements
- 02 Manual Data Entry
- 03 Error Correction in data entry
- 04 Physical Sending of Summons & Reminders
- 05 Sharing & Collection of Information & Documents
- 06 Physical Visits
- 07 Searching Information & Documents
- 08 Accessibility of Information & Documents from other than desk
- 09 Duplication of Work
- 10 Adjustments due to Ad-hoc Tasks
- 11 Delay due to Conflicts in Scheduling Date & Time
- 12 Hierarchical Approval
- 13 Finding Potential Issues of Inquiry
- 14 Preparation of Inquiry Report

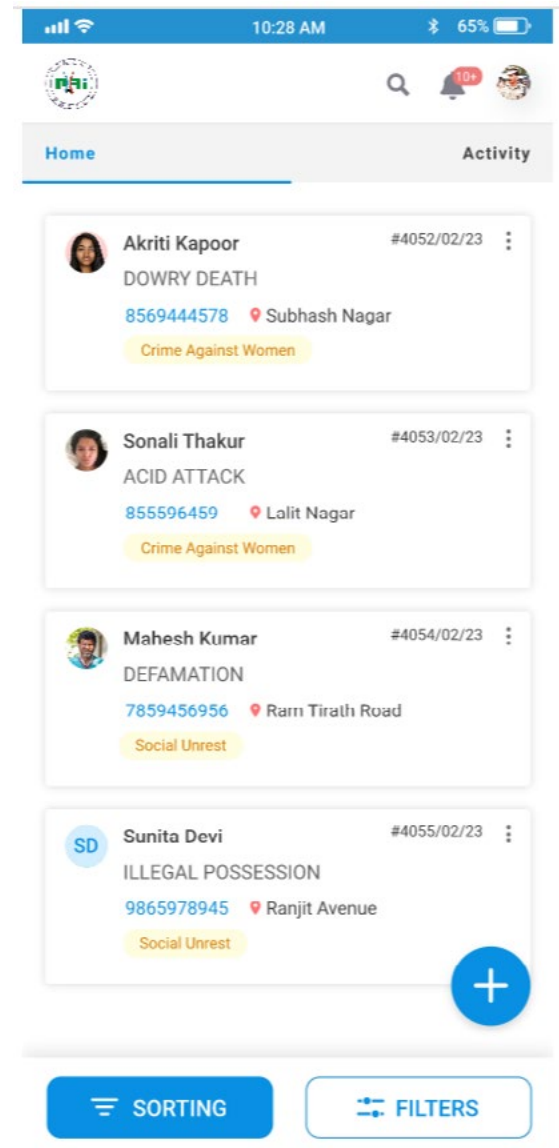


The Solution- Next-Generation End-to-End Digital Preliminary Inquiry System

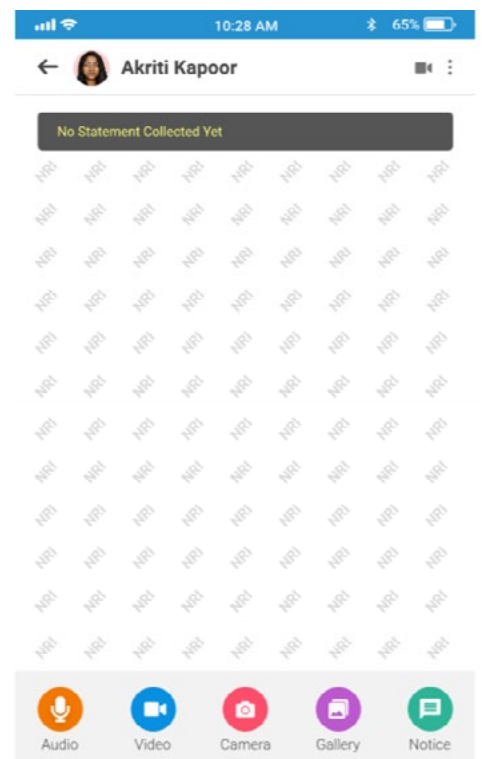
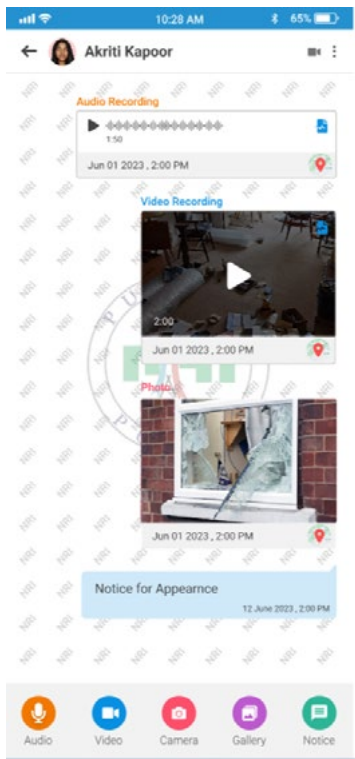
04

4.1 An End-to-End AI & Blockchain-powered Platform- from Filing to Decision, with the following key capabilities:

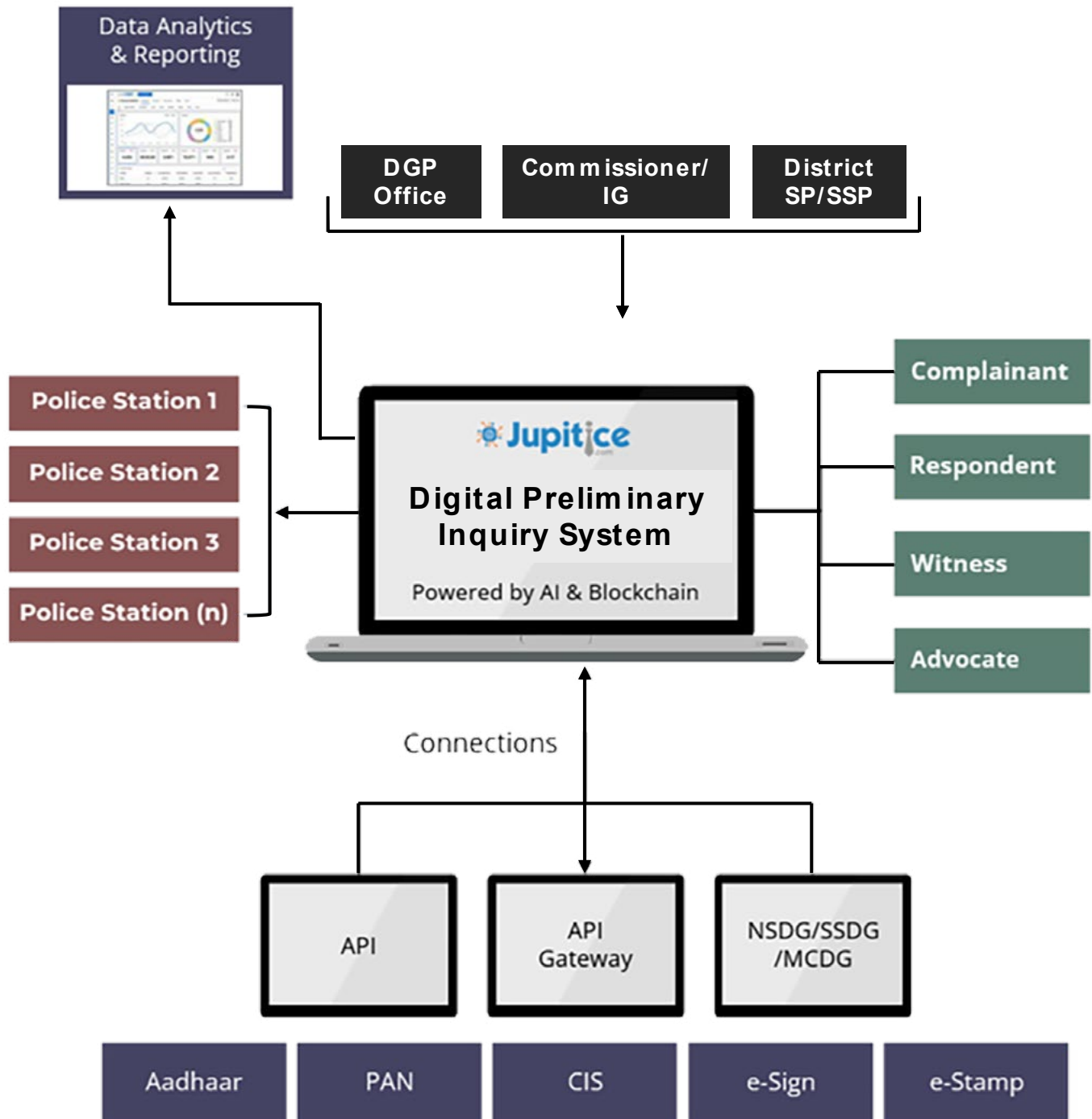
- 01 Online integration with other Systems
- 02 Online Scheduling of meetings with Complainants & Witnesses
- 03 Online Peshi
- 04 Auto Preparation of Reports in a pre-defined format (powered by AI)
- 05 Calendar Management
- 06 Multiple Digital Signatures Support
- 07 AI-powered translation
- 08 Automation of Key Processes including Mundane & repeated tasks for time savings
- 09 Online Meetings for recording statements & submission of documents
- 10 Auto Calculation of Potential Capacity of IOs



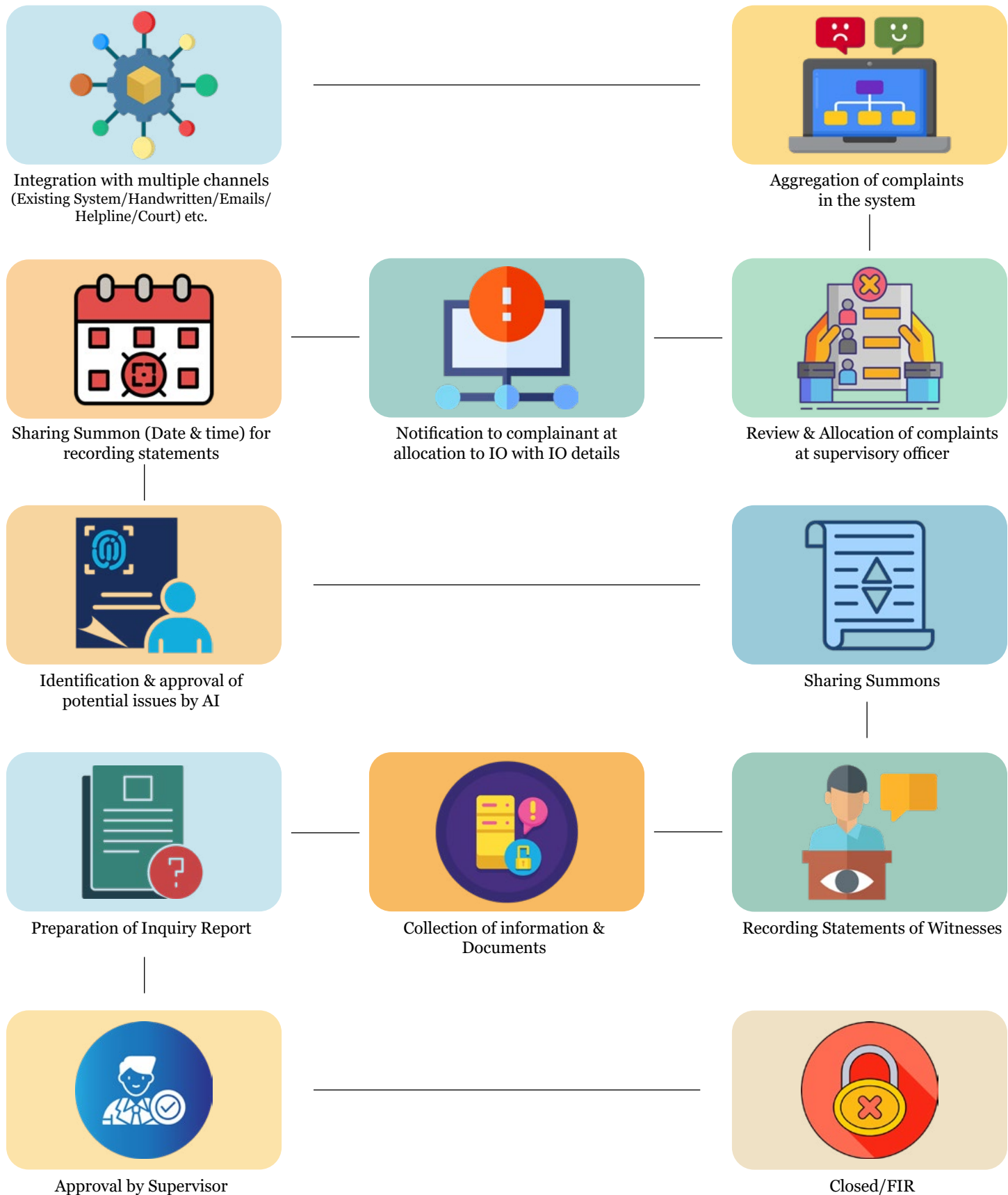
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| 11 | Hierarchical Approvals | 18 | Bulk administrative actions |
| 12 | Automatic Notifications & Reminders | 19 | Collaborations with Team & Seniors through Video, Text, Online Notes & Comments, Document Annotations, etc |
| 13 | Multiple Language support | 20 | Data Analysis & customized reporting |
| 14 | AI-powered search of information & documents | 21 | AI-powered transcription |
| 15 | Centralization of Information & Documents | 22 | AI-powered Case record Q&A |
| 16 | Geotagging, timestamping & Biometric Authentication | 23 | Mobile Applications |
| 17 | AI-powered document and case record summarization | | |



4.2 Architectural View of Digital Preliminary Inquiry System



4.3 Process Flowchart



4.3 Business Intelligence, Data Analytics & Customized Reports

- 01 Finding Patterns & Trends and automated anomaly detection
- 02 Real-time Average Inquiry Time
- 03 Average Numbers of Summons for each Inquiry
- 04 Average Number of Peshi for each Inquiry
- 05 Average Inquiry Approval Time
- 06 Inquiry vs. FIR vs. Conviction Rate
- 07 Average Recording of Statements Time
- 08 Average Number of Adjournments of each Inquiry
- 09 Average Number of Visits by EO
- 10 Complaint Filed vs. Complaint Closed Vs Complaint into FIR
- 11 Real-time Monitoring – Complaint Filed, Complaint Disposed Off, Complaints Pending (Issue-wise, Geography-wise, EO-wise, Domestic vs. international, Country-wise)





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