AgniPermit™

F | P | A | S

Fire Permit Automation System

AMT

Fast tracking the fire code verifications
for smarter and sustainable
development of the built environment

Automatic Verification of Building Fire Code

Rapid and accurate computer verification of Fire Code directly on the model

Building Fire Permits is a major milestone for building construction by aspiring home owners, and new business ventures. When you apply for a building permit, the building plan is checked for compliance to building fire code like IFC and related safety regulations.

Normally, this takes a lot of time due to manual effort needed for the scrutiny of all drawings of the proposed building against applicable development regulations.

This exercise includes multiple calculations, and manual errors may prove to be expensive to rectify later. This results in the citizens and businesses often facing several days of waiting.
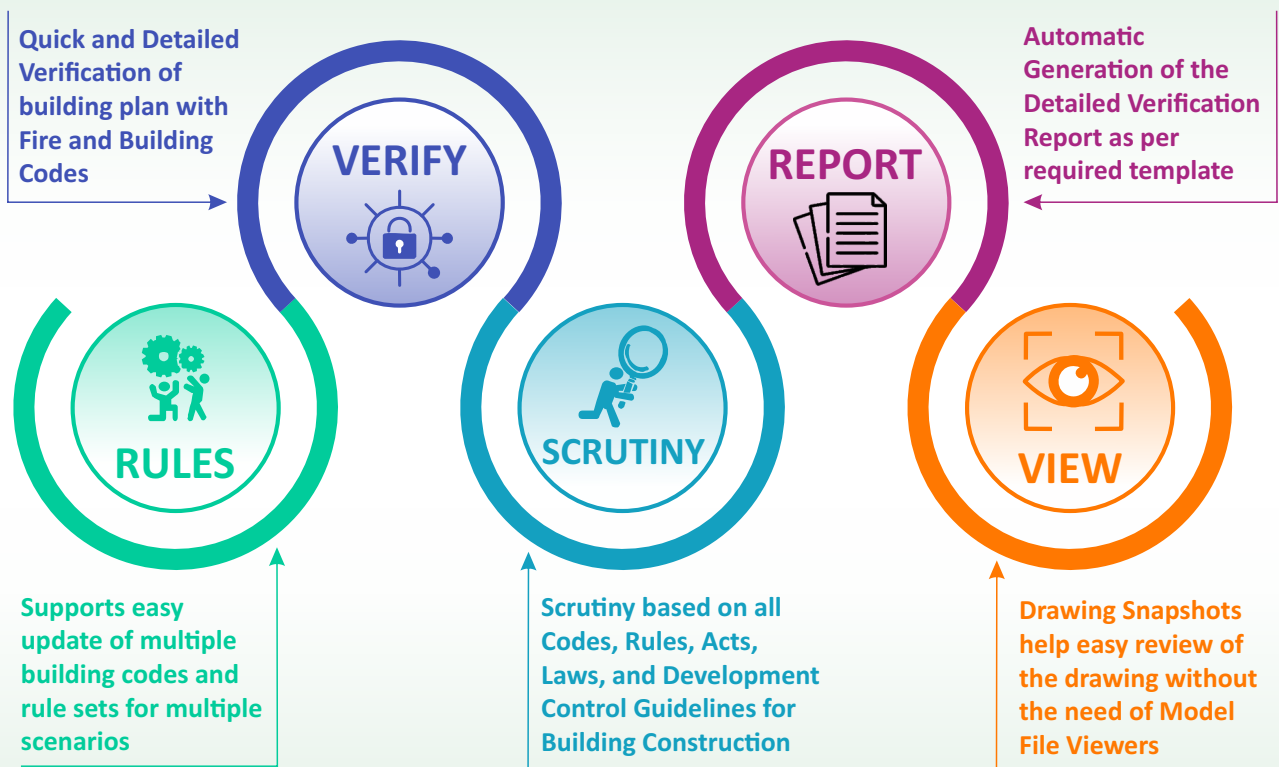
AgniPermit is a Building Fire Permit System from AMT that ensures that a rapid and precise verification of the fire code is done through computer analysis of the building model drawing file prepared by the architect.

AgniPermit verifies the building model drawing within minutes and generates a scrutiny report indicating which regulations are complied with and which are not.

This automated scrutiny of building plans can be done even prior to applying for building permits, so that resubmissions and rejections can be eliminated.

AgniPermit is designed as an integrated system which brings together all the stakeholders involved in the Building Permit process on to a single software platform. The information collected is verified with minimal manual involvement, and by leveraging the data from 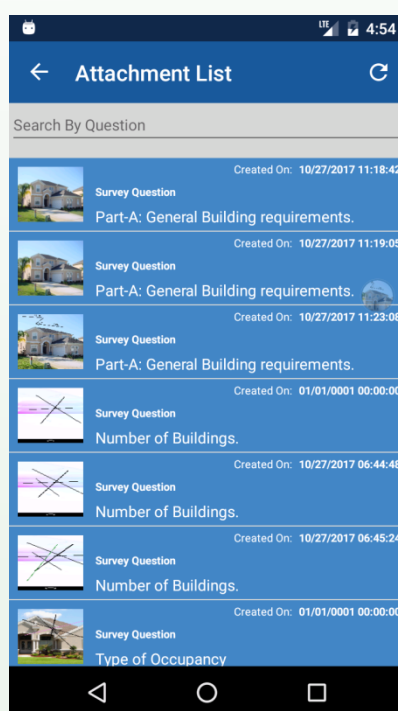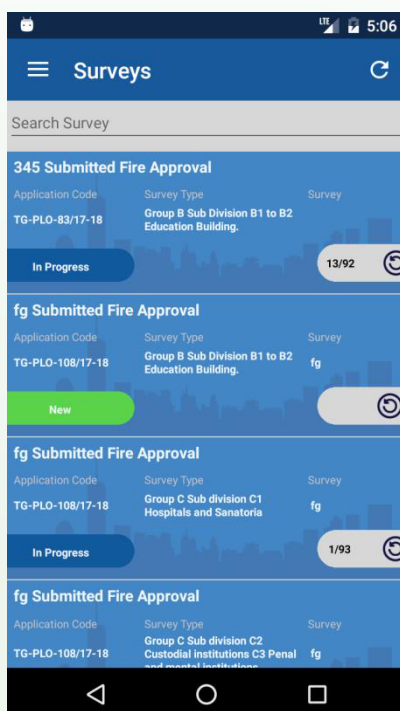other government automation systems. Transparency and predictable service levels are ensured through a configurable workflow. And the authenticity of the issued building fire permit is made tamper-proof through the use of a Digital Signature.

Quick and Detailed Verification of building plan with Fire and Building Codes

Automatic Generation of the Detailed Verification Report as per required template

VERIFY

REPORT

RULES

SCRUTINY

VIEW

Supports easy update of multiple building codes and rule sets for multiple scenarios

Scrutiny based on all Codes, Rules, Acts, Laws, and Development Control Guidelines for Building Construction

Drawing Snapshots help easy review of the drawing without the need of Model File Viewers

Key Building Fire and Safety Parameters Verified

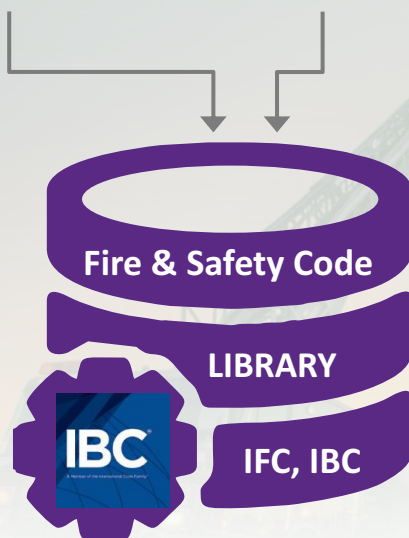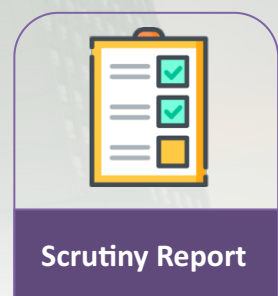|				
Setback	Building Height	Road and Means of Access	Parking	Driveway
Staircase	Ramp	Lift	Facilities for the physically challenged	Fire Tank
Travel Distance to Exit	Refuge Area	Fire Extinguisher	Fire Buckets	Wet Riser cum Down Comer System
Hose Reel	Hydrants	Fire Alarm System	Sprinkler System	Fire Pump

Site Survey through Mobile App

AgniPermit in Action

Building Details

Model File

Fire & Safety Code

LIBRARY

IFC, IBC

Indicates the compliance of the building plan drawing file to multiple fire and safety code parameters

Scrutiny Report

Visible Positive Impact

AgniPermit makes life easier for the applicants and the development officials who scrutinize building plan applications.

Since the application is pre-prepared, and drawing is pre-verified, it can be processed very quickly with minimal changes if required. Also, the complete digitization ensures quick sharing of relevant documents, while SLA based workflow makes the processing predictable and trackable.

In effect, the manual and redundant work involved is eliminated by AgniPermit, helping faster processing of building plan applications.

Time spent by citizen from application through approval is reduced by a large margin.
Applications can be filed from own home or office, no need to visit development offices.
Status and progress can be monitored through dedicated internet portal.
Information is shared through mobile and email alerts.
All this enhances citizen's confidence and trust in the governance process.

Unique Value Proposition

- Supports multiple drawing files, of the same building.
- Values measured directly from drawing objects; and not from the text entered.
- Maximum number of calculated parameters from drawing, for scrutiny.
- Original drawing created by Architect can be used to prepare the application.
- Prepared drawings are converted to non-editable format; ensuring document integrity.

No need for applicants to visit any offices for obtaining Building Fire Permit

No need for applicants to submit documents generated by department.

Online Mobile Application for Site Inspection by involved agencies

Computer generated certificate with digital signature; verifiable by 3rd parties

The Impact of AgniPermit

No more Hassles

FROM Manual Submission

TO Online Submission

Submit Online Form

FROM Manual Verification

TO Automatic Verification

No more Errors

No more Worries

FROM Phone Hang-ups

TO Automated Alerts

FROM Cash Counter Queues

TO Quick Online Payment

ONLINE PAYMENT

No more Delays

AgniPermit: Software System Components

Model File Verifier	Citizen Portal	Department Portal	Mobile App
Marking the Drawing Verification Report	Application Submission Online Payment Application Tracking Certificate Download	Application Processing Scrutiny Verification Workflow till Approval Certificate Generation	Site Inspection Capture Site Photos Capture Geo Coordinates

Completely web driven application with no human intervention from the time of submission till the report generation on the central server.
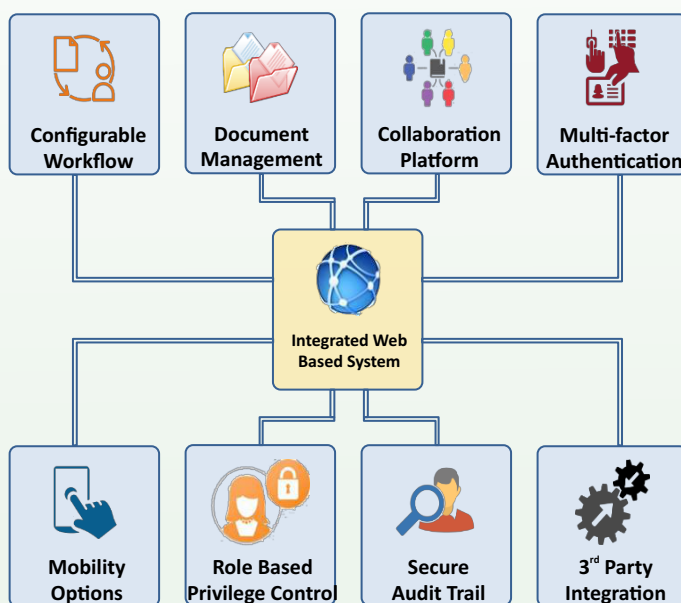Built in a pre-check engine that checks for geometry compliance, marks errors on submitted drawings with hyperlinks and returns the drawings to the applicants automatically without any human intervention.

A scrutiny engine generates reports on bylaw compliance automatically without any human intervention by extracting data from submitted drawings on the server.
The workflow can be configured as per the needs of Fire Department.
And alert notifications can be configured, based on approval, through SMS, popup notifications or emails.

Constructive Technology Platform

Configurable Workflow

Document Management

Collaboration Platform

Multi-factor Authentication

Integrated Web Based System

Mobility Options

Role Based Privilege Control

Secure Audit Trail

3rd Party Integration

Through smart adoption of the latest information technology tools, AgniPermit supports a collaborative environment where documents can be quickly shared between all involved parties.
A configurable workflow supports quick movement of a file from one stage to another, within the defined SLA. Also, using digital signatures and encryption mechanisms, the authenticity of documents and certificates are ensured.
Messaging facilities via email and messaging helps improve the communication between the applicants and officials. The integrated mobile app helps in easy coordination and completion of site inspections, while the online fee payment system is an added convenience for applicants.

Dramatic Transition From Manual To Automated Mode

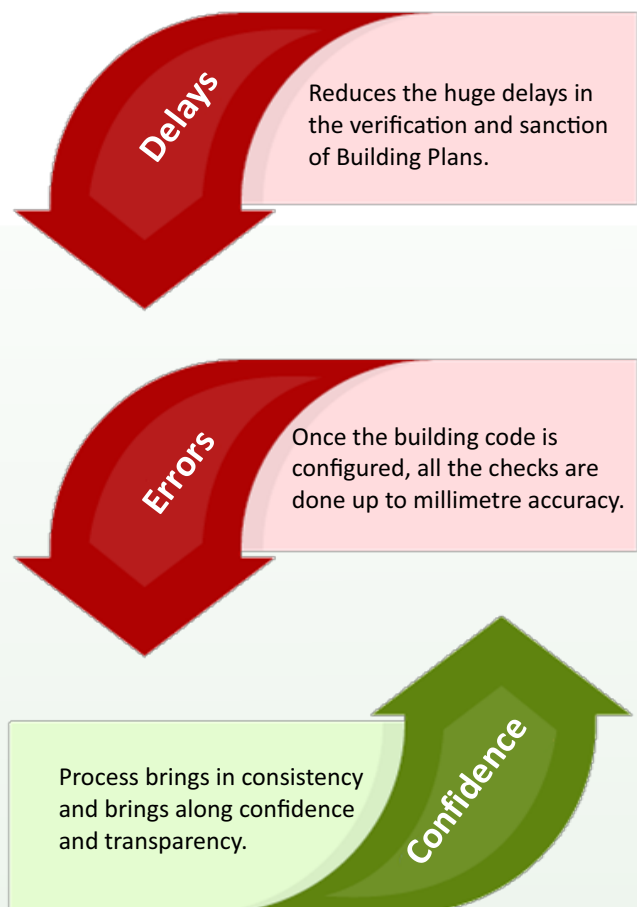| Activity	Manual Mode	AgniPermit Mode
Application	Paper based application at department office	Online submission from home through Citizen Portal
Drawing Scrutiny	Manual scrutiny of drawings	Automated scrutiny of Building Model drawing file
Site Inspection	Manual coordination for separate inspections by agencies	Joint scheduling and inspection with information sharing
Fee Payment	Payment to be done at bank and submit proof document	Online payment
Approval	Manual verification of papers at each officers' desk	Movement of files through predefined workflow with approval
Communication	Walk in visitor or telephone based enquiry desk	Status shared online and through phone messages to applicant
Certificate	Paper certificate with seal and manual signature	Computer generated certificate with digital signature

Benefits to all stakeholders

For Applicants

- No need to visit office to submit application
- Model drawing can be checked for compliance with the fire code before submitting, reducing chances of revised submissions
- Applicants need not apply for other permits and approvals separately.
- Convenience of online payment for the services
- Can track status of application online

Delays — Reduces the huge delays in the verification and sanction of Building Plans.

For Permit Agency

- Reduced manual effort in the scrutiny of drawings
- Reduced errors in verification of applications
- FIFO logic removes partisan approach
- Save on stationery and paper: Go Green
- Reduced application processing time
- Reduced work backlog / pending applications
- Improved service levels and quality
- Enhanced transparency in public governance
- Quick statistics and data available to governments from across the state

Errors — Once the building code is configured, all the checks are done up to millimetre accuracy.

Confidence — Process brings in consistency and brings along confidence and transparency.

> Supporting Governance initiatives
> through vital technology partnerships

AMT

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