

# FORNAX™ plan check expert

## FORNAX™ OVERVIEW

FORNAX™ is a solution welcomed by the Building & Construction Industry as it promises huge savings and lowers dependency on skilled resources for both the regulatory bodies and building professionals.

Preparation of detailed building plans for development and alterations is part and parcel of the construction industry. The plans are delivered to relevant authorities for checking for conformance and approval.

Checking compliance against regulations requires the ability to interpret submitted plans, remember seemingly endless list of regulations and understand how they apply practically. The task is one that requires knowledge but resource-intensive and dreadfully mundane. With a process that typically reverts back-and-forth between the regulatory bodies & submitting

**ex-pert** \ek-spert\ from Latin Expertus - displaying special skill or knowledge derived from training or experience. We refer to FORNAX™ as Plan Check Expert quite simply because the application system contains the know-how it needs to conduct electronic plan checking and applies the user-defined knowledge intelligently.

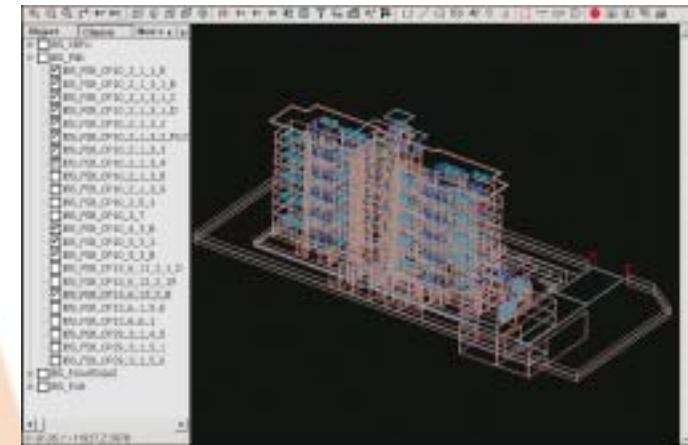
organization for clarifications and changes, one can expect it to be a time-consuming and costly activity.

The standardization of construction-related CAD drawing objects by IAI, has made the complex task of automating plan checks possible. FORNAX™ was developed specifically to perform automated checks on electronic drawings against building and land regulations for design compliance and generate compliance reports. With this revolutionary product, users can perform building and land design assessments in a quick and consistent manner.

Provided with summary reports, reviews becomes simplified. The examining officer can quickly make decisions, e.g. grant a waiver for non-compliance. As a result, this innovative solution offers a giant leap in productivity, not possible in conventional methods.

## SYSTEM COMPONENTS

The FORNAX™ range of products has modules to handle different domain-related processes. These modules can work independently or in a complimentary manner to perform automated evaluation and decision-making processes. The modules are:



- **Building Plan** - Check design proposals for compliance against regulations pertaining to matters such as fire-escape route, materials use, ceiling heights and fire rating
- **Building Services** - Perform compliance checks on building services components in design proposals against regulations such as ventilation, hydraulic and fire protection systems
- **External Work Clearance** - Evaluation and decision-making on standardized digital drawings against prescription-based Development Plan Guidelines and Regulations, such as plot ratio and land use type



### SOLUTION FOR ONE OR MANY

FORNAX™ can be implemented by a single regulatory organization or by a group. The group implementation can be achieved via integration of all the modules and incorporating them into a "one-stop" web-based portal.

Using the collaborative framework product PAVO™ as an extension, information/documents between all organizations can be cross-shared securely, quickly and transparently. Additionally, these info-transactions can be directly linked to pre-defined processes to reap maximum benefits from this unique solution.

### INTERNATIONAL ALLIANCE FOR INTEROPERABILITY (IAI)

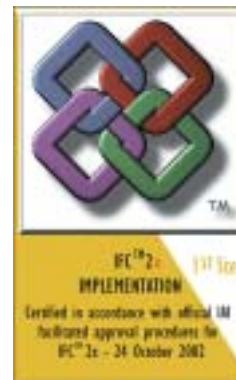
International Alliance for Interoperability (IAI) is an alliance of organizations within the construction and facilities management industries dedicated to improving processes within the industry through defining the use and sharing of information.

To do this, IAI has defined how a construction-related object should be represented electronically. These specifications are made up of objects & classes, represent information that supports an electronic project model essential in sharing data across applications.

The classes defined by the IAI are termed "Industry Foundation Classes" or IFCs.

### IFC CERTIFIED

As a member of the IAI (Singapore), novaMSC - novaCITYNETS has been actively involved in the implementation of IFC2x in its Electronic Plan Check project. This project was eventually certified against IFC2x specifications.



The requirements of this innovative Plan Check project and subsequent development of FORNAX™ has contributed significantly to the standards.

### FORNAX™ BENEFITS

- Extendable to different countries or regions easily through a rules-based engine
- Shortens approval cycle

- Checks build-ability of designs as well as adherence to building codes
- Enforces consistent, authorized and unambiguous interpretation of Codes and Regulations
- Integrates with an existing submission platform seamlessly to facilitate electronic delivery of plans & documents over the Internet, and simultaneous dissemination to all relevant agencies

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