

Intelligent Online Transaction Systems

Web-based forms management with the Lucom Interaction Platform®

Intelligent transaction-oriented forms ensure the optimum organisation of modern business and administration processes in the internet and intranet, eliminating the need to change between media. The only way to reduce costs and improve efficiency, however, is to choose the right components.

The Lucom Interaction Platform® represents a user-friendly design tool for creating web-based forms and input screens wherever structured data are processed in interactive applications. Users can display familiar forms in their preferred internet browser. Online help functions and plausibility checks ensure that the user enters data correctly. As an intuitive online transaction system, the Lucom Interaction Platform® ensures the consistency of the data that is entered by using rules from the downstream processes, creating the necessary conditions for a smooth workflow.



Creating forms with the Designer

The user-friendly graphics tool helps the developer to create and modify forms and input screens. Extensive programming skills are not required. Starting with electronic form templates (created using Word, Excel, AcrobatWriter etc.), the Designer creates web forms using drag & drop in WYSIWYG mode, including a link to the database. If desired, the Designer will generate the database scripts needed to create the required tables.

These XML web forms are then transformed into HTML forms on the forms server.

Data input using input management

The intuitive and interactive web browser simplifies the task of entering data. Features such as a preview function, an add-to-favourites option and a range of virtual catalogues for different forms (folders A-Z and forms A-Z) make the application even easier to use.

Catalogues with an integrated search function provide look-up windows to make it possible to search for and add data. Multiple-column drop-down menus (fixed or editable) and a range of other input tools (tips etc.) are just some of the application's convenient features. These also include validation checks when defining input formats for individual fields (date, number etc.). Even complex plausibility checks can be created, ensuring that the data entered is absolutely consistent.

The appearance and character of the forms change in real time depending on the data which is entered. For example, extra fields for a partner can be added automatically according to the user's marital status.

Comprehensive access authorisations regulate the appearance and character of forms and fields according to the role of the user. The result is an intuitive and uniform user interface for both external and internal users (internet and intranet). The advantage is obvious: with the Lucom Interaction Platform®, multiple developments become a thing of the past.

Multiclient-capable forms allow for a uniform corporate design and are used primarily where company-specific details apply, e.g. in addresses. They can be set up for every client and be used dynamically.

UNFALLANZEIGE

1 Name und Anschrift des Unternehmens

2 Unternehmensnummer des Unfallversicherungsträgers
0 1 9 0 1 9 0 1 9 0 1

3 Empfänger
Bitte über grünes |_J-Feld suchen und übernehmen
Badische Unfallkasse

4 Name, Vorname des Versicherten
Max Musterfrau

6 Straße, Hausnummer
Kleine Kielstr. 7

7 Geschlecht
 männlich weiblich

10 Auszubildender
 ja nein

12 Anspruch auf Entgeltfortzahlung
besteht für Wochen

14 Tödlicher Unfall?
 ja nein

18 Unfall
Tag 0 | 1

17 Ausführliche Schließung des Unfallereignisses (Verortung, Bezeichnung des Unternehmens, ggf. Beteiligung von Mitarbeitern, Zeitgen, Unfallort)

Suchkriterien:
Unfall Suchen

Name	Strasse	Postfach	PLZ	Ort
Bayrischer Gemeindeunfallversicherungsverband	Flughafen	Postfach 0815	80791	München
Gemeindeunfallversicherungsverband Hannover		Postfach 03 01	30500	Hannover
Unfallkasse des Bundes		26380	Wilhelmshaven	
Badische Unfallkasse		76128	Karlsruhe	
Badischer Gemeindeunfallversicherungsverband		Postfach 59 29	76049	Karlsruhe
Bayrische Landesunfallkasse	Landstr. 123		80791	München
Braunschweiger Gemeindeunfallversicherungsverband		Postfach 15 42	38005	Braunschweig

Example: "Add" option following a search in the catalogues

	3	4	5	6	7	8	9	10	11	12	
10.02.2010	Übernahme der Daten		2	6	5	2	506,66	400,00	10,99	11,00	15,00
Anreise zum Schulungsort											
11.02.2010	Übernahme der Daten		2	2	1	2	400,00	560,00	120,00	10,00	10,00
Abreise vom Schulungsort											
Summe			4	8	6		906,66	960,00	130,99	21,00	25,00

Example: dynamic form structure with a flexible number of lines

Workflow-oriented processing with workflow management

The integrated workflow management ensures that data are processed according to workflows. By using ad hoc emails or dedicated workflow systems, transactions can be controlled selectively. Uniform user interfaces (e.g. for queries or status requests) mean that the user can be involved in the procedure at any time. The internet or virtual private networks (VPN) allow workflows to be controlled effortlessly across company and agency boundaries.

Flexible data output using the integrated output management

The integrated output management allows simple or complex documents to be created. A broad range of options is available, from printing onto official forms to providing a variety of layouts for documents to be sent by post, fax or email (with PDF attachment). Further flexibility comes in the form of a dynamic print layout for dynamic forms, along with the possibility of generating XML messages. In this way, the address can be added with minimal effort to a broad range of output media and formats (printer, mobile phone, XML, PDF, email, fax, SMS, archive etc.).

Future-proof thanks to open standards

The open architecture (J2EE) of the Lucom Interaction Platform[®] guarantees cross-platform capability (Solaris, Linux, Unix, Windows NT/2000/XP). Standardised protocols and technologies such as XML, JDBC, LDAP and SOAP ensure the smooth integration of databases and directory services, providing the technological basis for connecting specialist procedures – thus eliminating the need to change between media.

As your service partner, MATERNA will be pleased to assist you in the selection and implementation of the products and solutions which fulfil your requirements. As a system integrator, we have the necessary experience in the fields of internet and intranet, portals, content management systems, directory services, connection and development using complex workflow or groupware systems.

We will assist you with the integration or introduction of a virtual post room (e.g. the basis component for data security "BOL 2005" / Governikus). Together with the Lucom Interaction Platform[®] this guarantees you full data security, authorisation security and the secure electronic filing required for a modern administration of the future.

Optional add-on modules for the Lucom Interaction Platform®

GenericData service

The GenericData service allows even more flexible use of the Lucom Interaction Platform® (LIP) within service-oriented architectures. The data recorded in forms can be converted to a large extent within the LIP into the format required by the target system or vice versa.

The solution's benefits

The GenericData service also makes it possible to fulfil individual requirements of the services offered in a service-oriented architecture. For example, data from forms can be collected or aggregated before being transferred.

Features

- Upload and download of form contents via web services
- Script-based API

Self-registration service

Not every forms management application prescribes restricted access. If an application is to be made available to unlimited users, this add-on module simplifies the registration procedure. Users can obtain access by registering themselves using "SelfReg". Access is then activated either immediately or, if desired, via a link contained in an email. The security level of the password and the optional use of a CAPTCHA can be configured as preferred.

The solution's benefits

The self-registration service is fully integrated into the LIP. There is no need to set up user access or to send registration details to the user. The user is activated simply by clicking on a link. The registration process does not require the involvement of administrators.

Features

- Independent registration with security mechanism in the form of confirmation by user or administrator via link contained in email and, if applicable, use of a CAPTCHA
- Registration process controlled via script for individual modifications to the activation workflow
- Registration via "normal" LIP form

Service

As far as service is concerned, the focus is on client-specific design. In other words, identical forms and form applications can be presented to the customer with different appearances – perhaps, for example, different local authorities will use different logos on their letterheads, or when a centralised service is provided for different regions.

The solution's benefits

With the LIP it is possible to give the application a customer-specific design. The form centre and all the forms it provides are presented according to the design defined for that particular customer.

Features

- Administration interface for setting styles, colours and images/logos
- Modifications are immediately visible and easy to test
- Assignment of users to clients
- One admin per client
- Easy to upgrade
- Controlled by scripting or action
- Assignment by client attribute at the user

Reporting service

The reporting service converts the data presented in reports or statistical evaluations into usable information in a variety of formats. Simple access and a user-friendly interface play a major role, not only for the administrator but also for the end user.

The solution's benefits

By integrating the reporting service into the existing infrastructure of the LIP®, a dynamic, form-based evaluation of data stocks is possible, with a range of output formats to choose from. Selected parameters can be assigned with conditions and displayed for a particular form. In this way, recurring queries regarding the current data stock can be carried out quickly and simply by the user, even without SQL programming skills. The reporting service uses the Java version of the open source software from JasperReports, iReport Designer, to create and edit the report templates. The templates created with this tool are uploaded into the LIP® system where the user can access them for dynamic evaluations.

Features

- Reports can be created from a variety of data sources (database, CSV file, XML file, a range of form levels)
- Export into different formats (CSV, HTML, PDF, RTF, XLS, SML)
- Activated reports requested directly from forms (with parameter setting) or via the catalogue
- Link to the open source reporting engine, Jasper
- Script modules for the "elegant" request of reports, assignment of relevant data / parameters and further processing of the result (e.g. PDF)

Please contact us if you require any further information about web-based forms management.

Lucom Interaction Platform®
is produced by our partner:



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