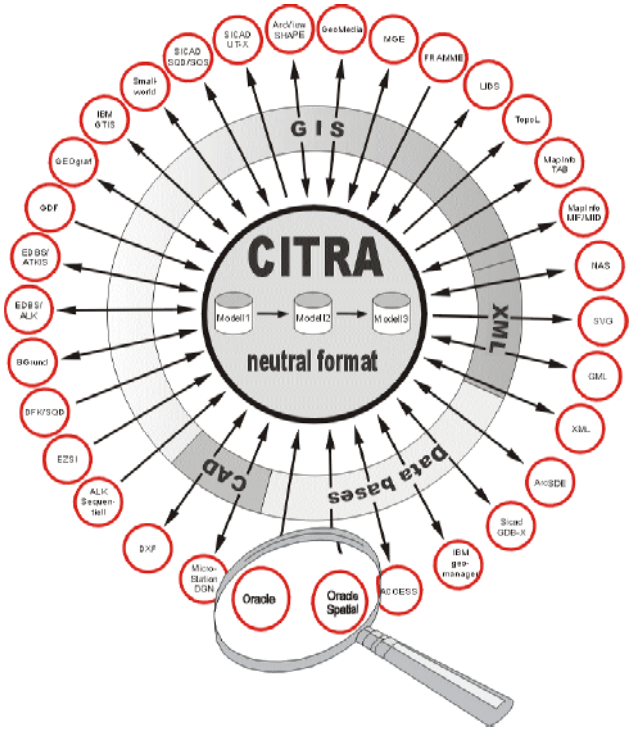
CISS TDI

Translator CITRA® ↔ ORACLE

Translator for the data import/-export for ORACLE Spatial



General information

The translator CITRA ↔ ORACLE enables the data exchange between ORACLE Spatial (object-relational or relational data model) and nearly arbitrary other data formats. Standard Oracle data bases without spatial extension can also be provided.

The data management in ORACLE is non-redundant and seamless. Many GIS fulfil the OGC-standards (OpenGisConsortium) and are able to have direct access to data in ORACLE Spatial. GIS increasingly require a data management in ORACLE-data bases, since these are used as a standard data base by many companies.

The data export enables a delivery of geodata from ORACLE Spatial into most diverse data formats. A particular advantage is the possibility to export exactly those data required and process them with the CITRA basic module in an optimum and customised way.

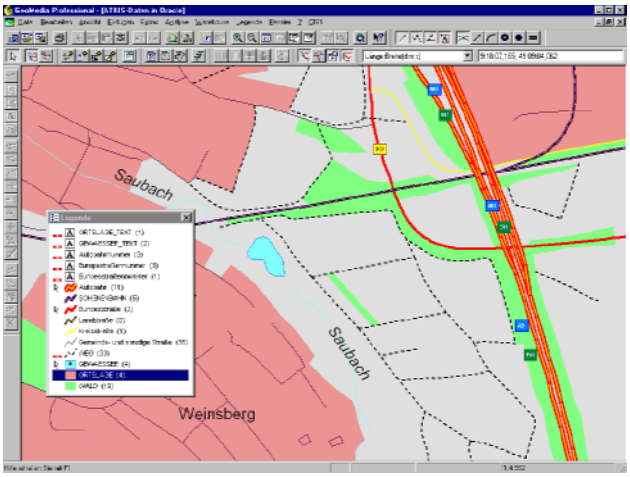
Basic information on CITRA®

CITRA is both a neutral data format and a program system for analysis and exchange of geodatasets between different geoinformation systems. CITRA is able to transport data between more than 40 source- and target systems and formats, and will model them as required, for example EDBS/ALK, EDBS/ATKIS, DFK/SQD, BGrund (special german data formats), GDF, ArcView, ArcSDE, DGN, DXF, GeoMedia, IBM GFIS, MapInfo, Sicad SQD/SQS or Smallworld.

Data exchange with the translator CITRA® ↔ ORACLE

The translator CITRA ↔ ORACLE is part of the above mentioned CITRA-hub and guarantees the exchange of geodata between arbitrary systems and ORACLE.

Data import into ORACLE



Data management in ORACLE Spatial: ATKIS-data in GeoMedia

On data import into an ORACLE Spatial data base arbitrary raw data (e.g. SQD, EDBS/ALK, EDBS/ATKIS, GDF) are transported into ORACLE via the neutral format CITRA.

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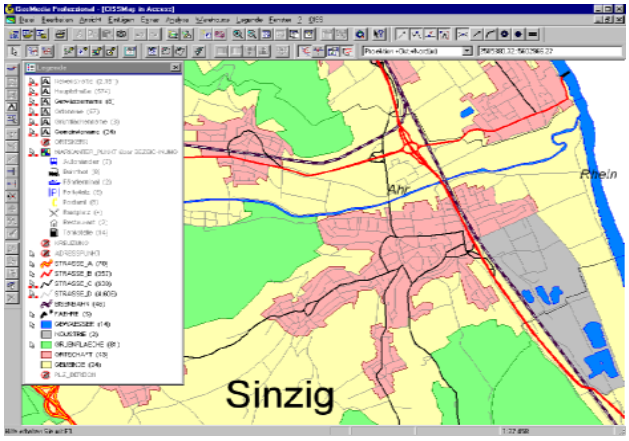
An analysis of CITRA data will facilitate the creation of a suitable data base. Prior to this a processing, like the formation of polygon objects with the CITRA basic module, can take place. As an alternative it is possible to model the data to be transferred with the CITRA basic module so that they will fit into a predefined ORACLE data base.

The translator CITRA → ORACLE collects error objects in an error file, indicating the cause for rejection of the object by the data base, and supplies a statistics of the rejected objects and the failure causes.

Data export from ORACLE

The data export with the translator ORACLE → CITRA enables the import of more than 25 different GIS and formats with data from ORACLE. The export translator offers nearly arbitrary possibilities regarding the selection of the data to be exported. The translator also works with data base views and uses their potentials. The translator ORACLE → CITRA creates a CITRA file which can be modelled as required with the CITRA basic modules. In this way various attribute information can be either combined or blanked.



Data export from ORACLE: CISSMap for GeoMedia

Areas of application and advantages of the translator

The translator CITRA ↔ ORACLE is used in most diverse areas and offers the following advantages in particular:

- The translator CITRA → ORACLE allows the high performance transfer of large datasets.
- Further enhancement of the performance can be achieved when several clients are used in parallel to translate very large datasets.
- The translator CITRA → ORACLE can import arbitrary data models.
- Even today many geoinformation systems, such as Smallworld, GeoMedia, MapInfo or ArcView as well as ArcInfo (via ArcSDE) guarantee a direct access to suitable ORACLE data bases as available through the translator.
- Unlike other methods the translator CITRA → ORACLE enables a further import of already existing data bases.
- The translator supports the transmission of texts for Intergraph GeoMedia.
- The translator ORACLE → CITRA can have direct access to the data base or use the possibilities of views.
- The delivery of data from ORACLE via CITRA enables the import of various systems according to customer requirements and is a component of the idea of a geodata server (description available on a separate information pamphlet).
- A data export into information systems, certain (sensitive) information can be omitted. Even a differential update is possible provided that certain conditions for regular data update in the information systems exist.
- When exporting data from ORACLE, CITRA-tools help to create an almost similar data model and appearance of a map in the target system concerned.

Technical requirements

- Oracle relational data model from version 8.0.5
- Oracle object relational data model from 8.1.6

Miscellaneous

- A detailed description of CITRA is available separately.

The data portrayed were kindly put at our disposal for the purpose of presentation by Department of Land Surveying Baden Württemberg (Basis: DLM 25 Baden Württemberg, Az.: 2851.2-D/1108) and Tele Atlas NV for the purpose of presentation.

Further information: www.ciss.de or eMail: ciss@ciss.de.