DETA Feasibility Study
Agenda

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- **Introduction** — **05 min**
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  - **Start-Up Costs**
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DETA Feasibility Study
Introduction

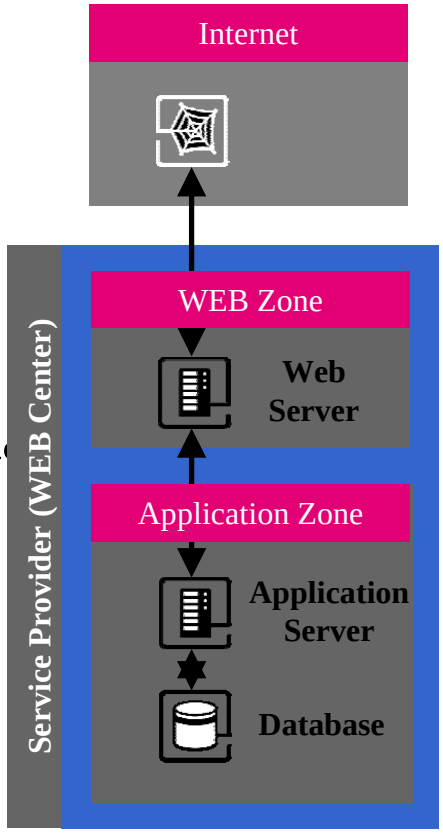
- **Ralf Pickelmann, T-Systems Enterprise Services**
  - **T-Systems is the ITC provider of the German Telecom.**
  - **Ralf Pickelmann is head of the team Type Approval Solutions.**
  - **20 year experience in type approval processes.**
  - **Consulting for vehicle manufacturers and approval authorities.**
  - **Inventor and provider of the TypMaster® concept.**
- **History**
  - **1986 First projects for type approval processes.**
  - **1989 The Type-Approval-Team of T-Systems (former debis) was formed.**
  - **1994 Cooperation with German KBA for electronic data exchange with vehicle manufactures (e.g. COC data).**
  - **1997 The TypMaster® concept was presented.**
  - **2000 Roll-Out of TypMaster/DD® for 12 vehicle manufacturers.**
  - **2005 TypMaster/DD® Version 2 became available.**

DETA Feasibility Study
Motivation

- **Electronic treatment of type approvals granted according to UNECE Regulations annexed to the 1958 Agreement.**
- **One objective is the creation of an electronic database for exchange of type approvals issued by the Contracting Parties to the 1958 Agreement.**
- **Based on the experience made by the existing European Type Approval Exchange System (ETAES), a new database system should be established by the UNECE.**

DETA Requirements and Feasibility
Document Archive Structure

- **Type approval documents should be stored in an easy accessible and worldwide available database.**
- **Any document format should be supported (in general PDF)**
- **Type documents shall include at least the Communication Form, other parts are optin**
- **Key attributes are ECE Symbol, Regulation Number, Manufacturer, Type Designation, Approval Number, ...**
- **Additional attributes should be added if necessary.**



DETA Requirements and Feasibility
System and Document Security

- **There should be a registration process for users of the system.**
- **Administrators at UNECE and CP shall manage these users.**
- **Read and write rights should be assigned automatically by the system according to defined rules.**
- **All users shall have read rights to all documents stored in DEATA.**
- **Users of a specific nation (the employees of the type approval authority of the CP) shall have write access to their own documents.**
- **There should be the possibility to add additional users to DETA (e.g. technical services, ...).**

DETA Requirements and Feasibility
Management and Retrieval of Documents

- **DETA shall have an easy to use user interface.**
- **Main management function is to store documents in DETA.**
- **Access rights to new documents should be set automatically.**
- **All documents shall remain indefinitely in DETA.**
- **To retrieve documents the user shall enter one or more search attributes. Found documents should be displayed in a result table.**
- **Retrieved documents should be displayed, printed or stored on users workstation.**

DETA Requirements and Feasibility
Quantity Structure

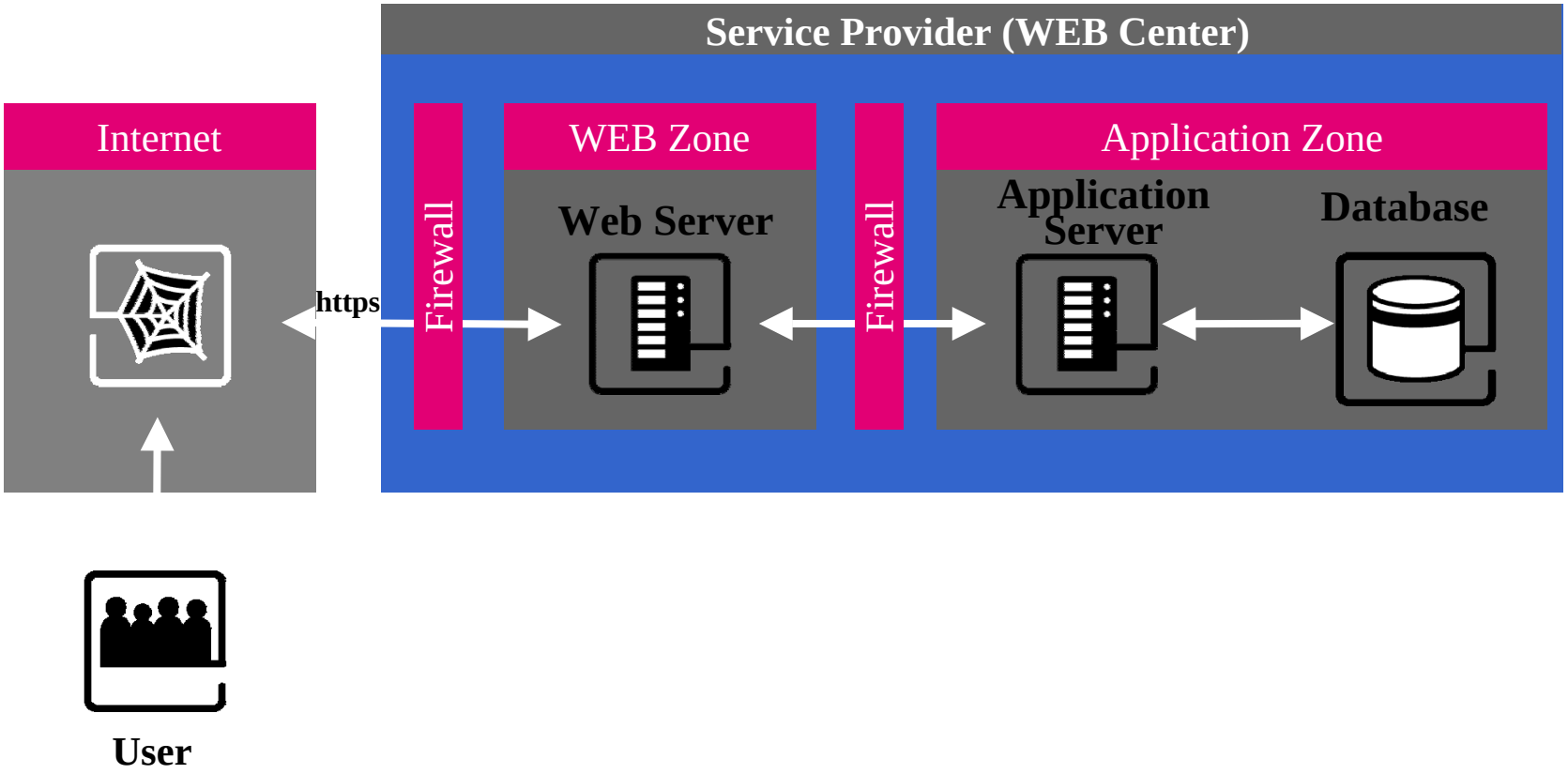
- **Size of type approval documents are in the range of 100kB to 2,500 kB depending on document's parts (Communication Form, Information Document, ...).**
- **Total amount of new documents will be 30,000 per year.**
- **This results in needed disc capacity of appx. 50 GB per year.**

- **DETA should be able to handle 200 users with read rights and 100 users with read/write rights.**
- **Approx. there will be 100 users at the same time working with DETA.**

DETA Requirements and Feasibility
Technical Requirements

- **DETA shall run in an internet WEB center with adequate security infrastructure (2-Tier architecture).**
- **DETA shall be available 24 hours a day and 365 days a year.**
- **Minimum down-time in case of hardware failure.**
- **User access via public internet using any internet browser.**
- **Network security assured by HTTPS protocol.**
- **User identification with user-id and password.**
- **The service provider shall establish a User Help Desk to support administrators at UNECE and CP.**

DETA Requirements and Feasibility
Required Architecture



DETA Requirements and Feasibility
Differences between DETA and ETAES

- **DETA will contain a multi-level administration concept (system administrator, group administrators).**
- **DETA will include an automated right system (mandator capability).**
- **DETA will have specially adapted document management functions.**
- **DETA should run without installation on client workstation. ETAES uses a JAVA application.**

DETA Requirements and Feasibility
Result of the Study: Feasibility

- **The creation of a Database for the Exchange of Type Approval (DETA) documentation is technically feasible and shall fulfill all the technical and administrative requirements of this study.**

DETA Requirements and Feasibility
Benefits

- **Complete type approval documentation available online.**
- **Worldwide access for all participants.**
- **Rapid distribution to all participants (time saving).**
- **Avoidance of paper, no mailing costs, no media breaks.**
- **Easy to use (user interface especially build to support the process).**
- **Future-proof.**
- **Expandable to include other document types.**

DETA Costs
Start-Up Costs

- **Development costs or licensing fee for the system.**
- **Deployment of the system.**
- **Installation and configuration of WEB center software.**
- **Training for**
  - **service provider**
  - **administrators**
  - **end users.**

- **Total costs will be in the range of 50,000 € to 150,000 €**
  depending on final specifications.

DETA Costs
Operating Costs

- **Operating costs for running the system in a WEB center.**
  - **Investment and depreciation of hardware.**
  - **Ongoing improvement of hardware (e.g. disk capacity).**
  - **Running and monitoring of the system.**
  - **Allocation of backup procedures incl. storage medium.**
- **These costs will be 5,000 € to 15,000 € per month depending on required service levels.**
- **Operating costs for the User Help Desk.**
  - **Provide required service time.**
  - **Provide required response time.**
- **These costs will be 5,000 € to 15,000 € per month.**

DETA Requirements and Feasibility
Tasks of User Help Desks

- **1st Level Help Desk (administrators at UNECE and CP).**
  - **End user support.**
  - **On-site at each CP.**
- **2nd Level Help Desk (system provider).**
  - **Administrative assistance for 1st Level Help Desk.**
  - **Monitoring the system.**
  - **Customizing and configuration due to change requirements.**
  - **Allocation of a test system for debugging and improvement.**
- **3rd Level Help Desk (service provider).**
  - **Technical assistance for 2nd Level Help Desk.**