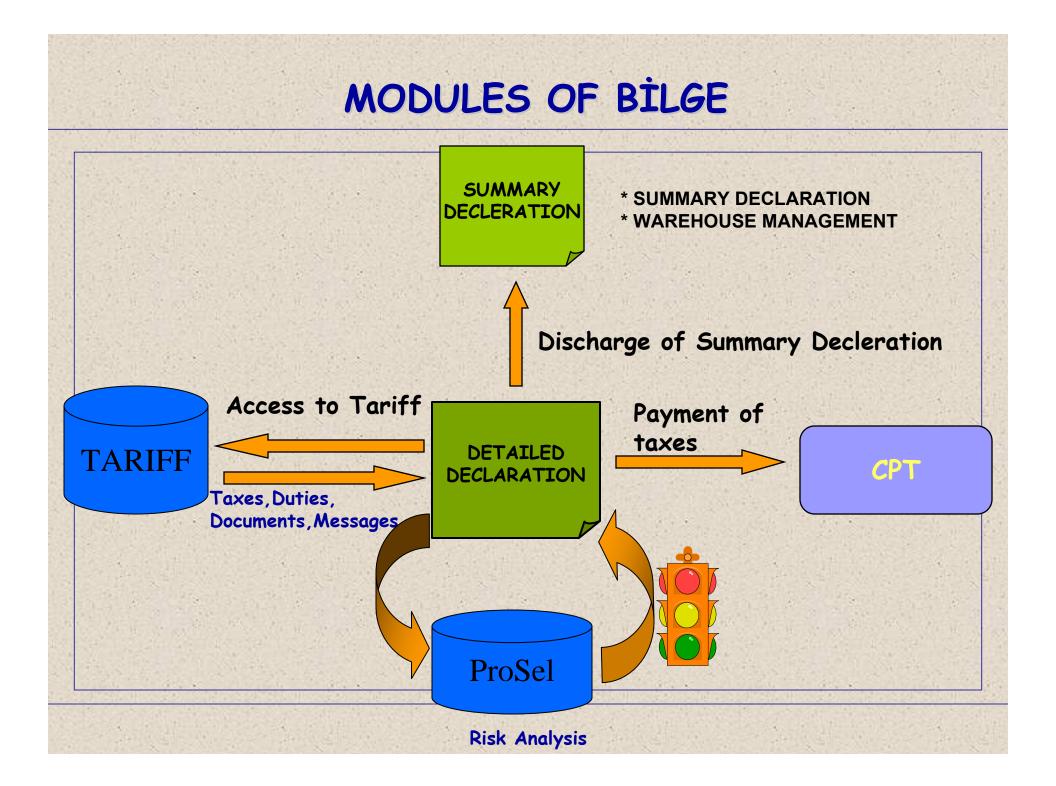
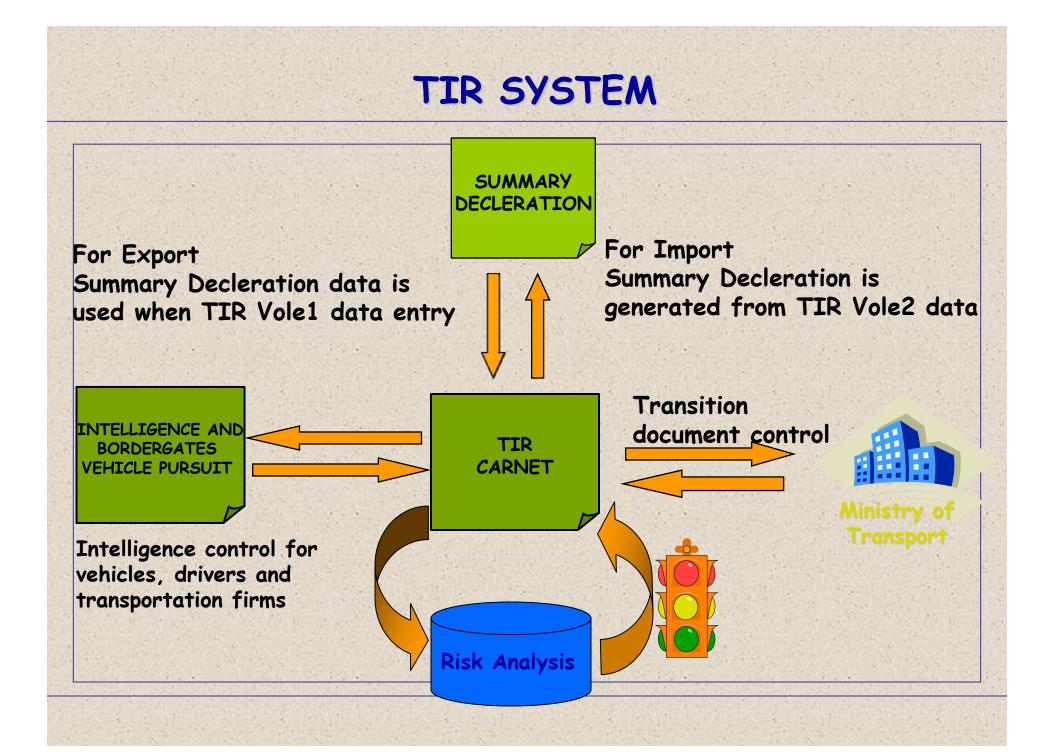


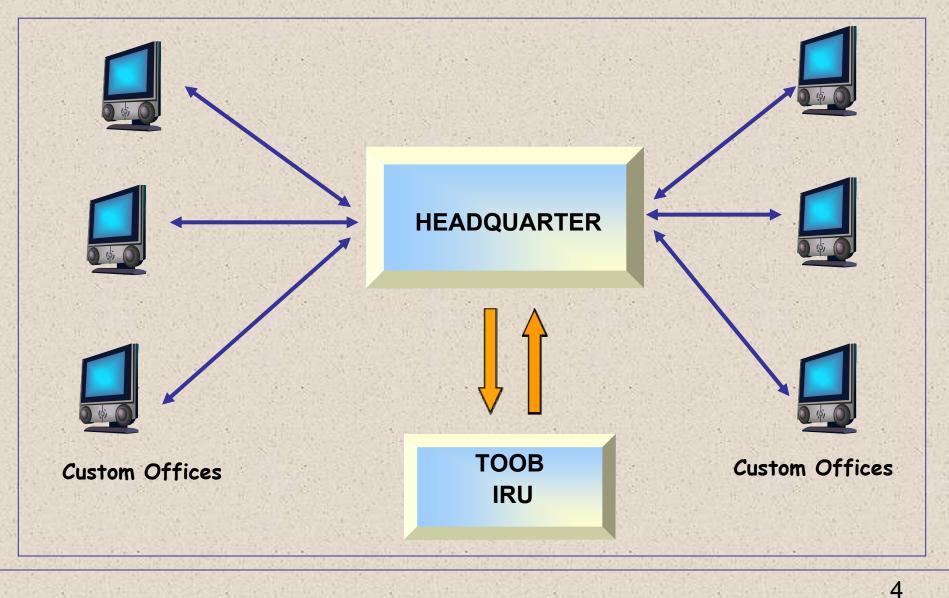
CENTRAL BILGE AND TIR APPLICATIONS IN TURKEY

Hasan LALE (hlale@gumruk.gov.tr)



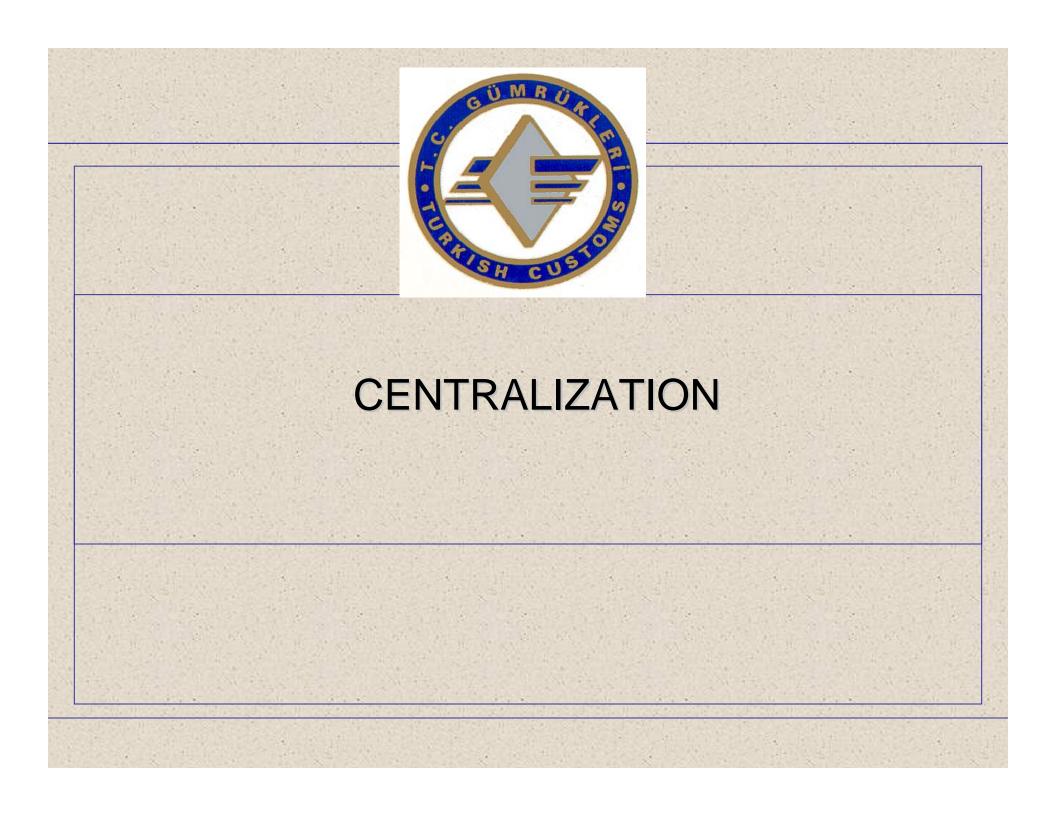


TIR-Current Situation (Distributed Architectures)



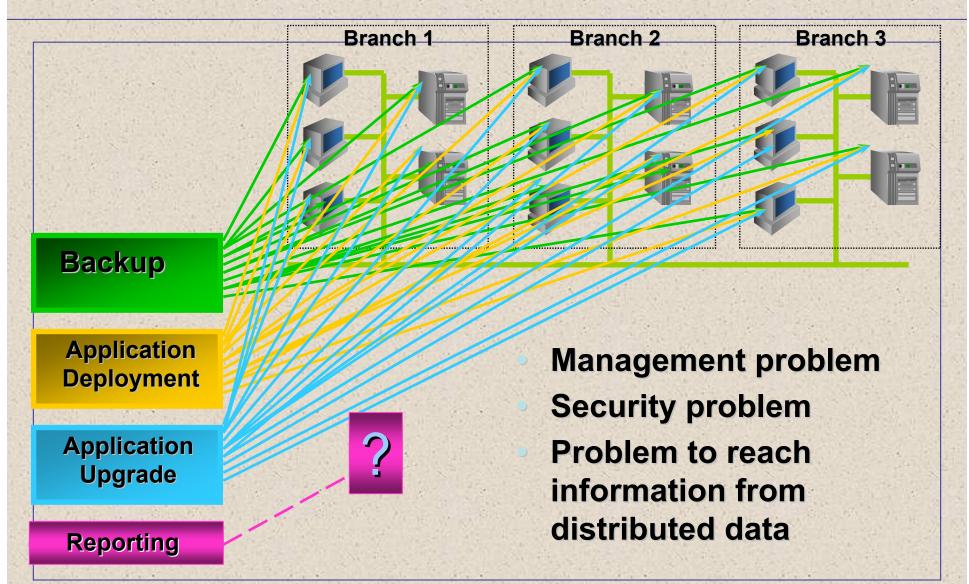
Current Situation-Disadvantages:

- Difficulty with collecting data at Headquarters because of distributed system
- Delay in transferring data to IRU
- Delay in releasing guarantee



Why Centralized Architecture ?

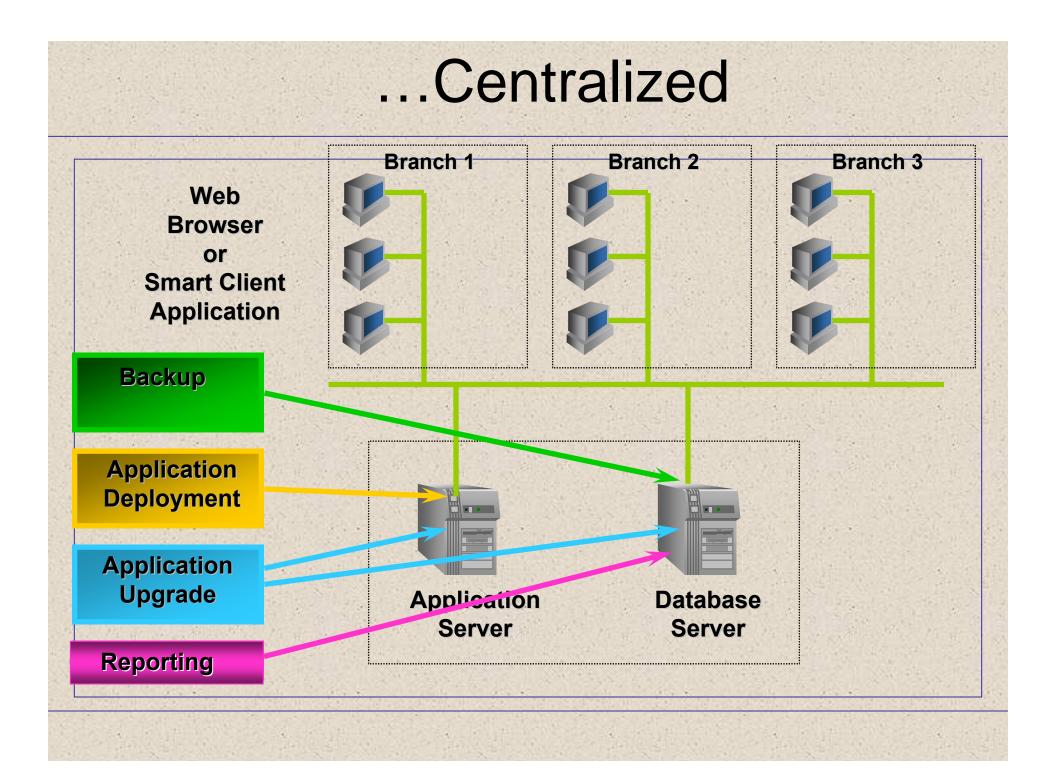
Distributed ...



CENTRALIZATION

Main objectives behind the "centralisation" decision are to:

- Simplify the system management
- Lower the maintenance costs
- More efficient utilization of system and human resources
- Increase the quality of service with centralized control
- Improve the IT infrastructure
- Preparation for EU IT interconnectivity rules for integration with EU Institutions



Centralized Architecture

Seems to be advantageous;

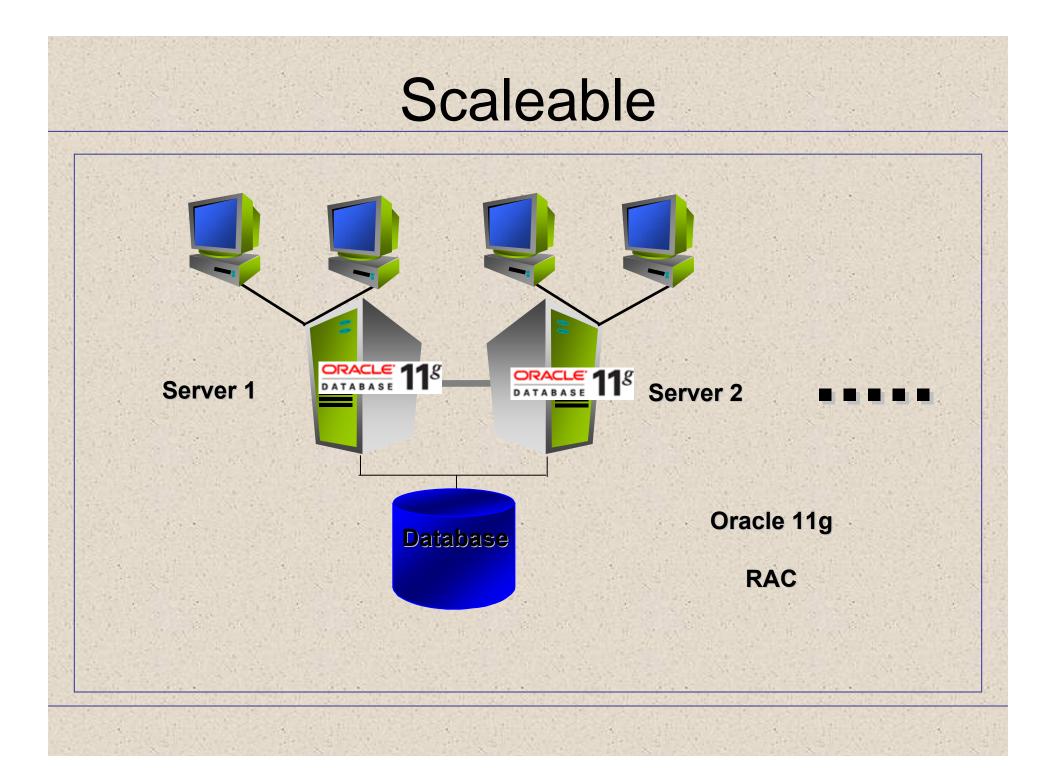
- Centralized server is down, everbody is down
- Increase in number of users (internal and external)
- Increase in quantity of data results in difficulty in management and performance
- What about disaster ? What is the definition of the disaster ?

Database Management System Strategy

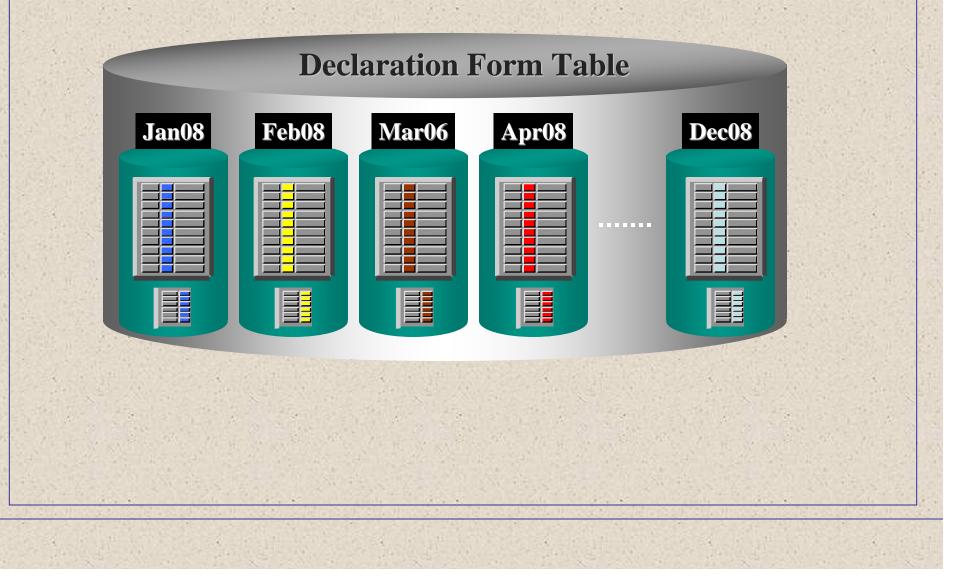
- Database Migration
- Database Clustering
- Partitioning
- Database Security
- Database Backup and Recovery
- Database Disaster Recovery

Database Centralization Strategy

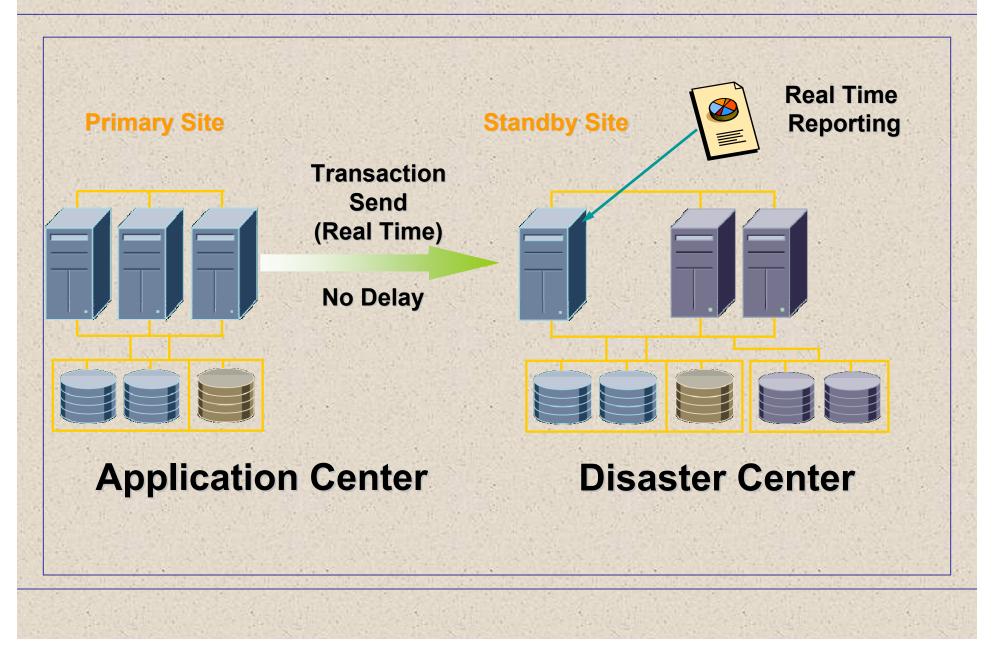
- Data Consolidation
- Data Verification and Validation
- Database Design Changes
- Data Modeling



Oracle Partitioning



Disaster Recovery



CENTRALİZED BILGE

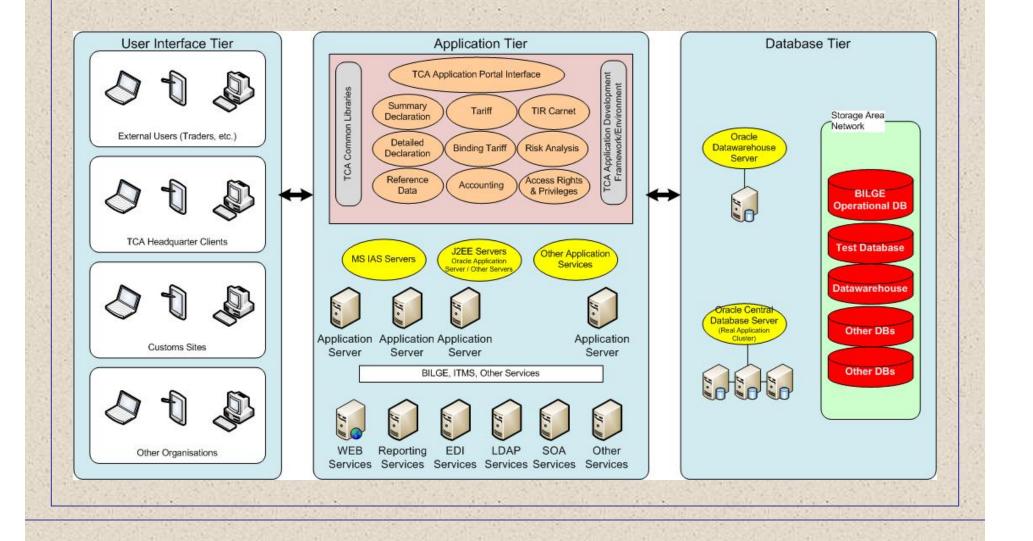
Defined Standards

- User Interface Standards
- Database Standards
- System Arthitecture Standards

Software Architecture Strategy

- SOA Approach
- Functional Architecture
- Layered Architecture

Functional Architecture

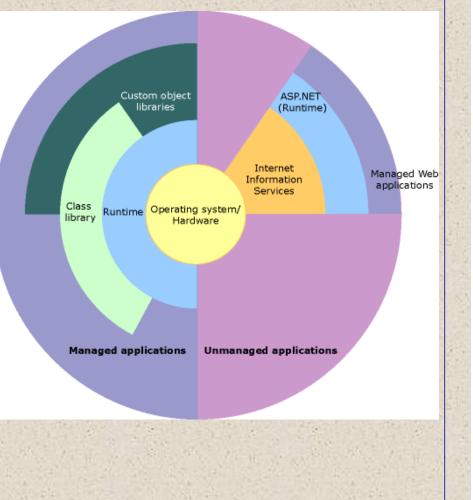


Layered Architecture



Framework

- Microsoft Visual Studio 2008
- C# Language
- WCF 3.5 Windows
 Communication Foundation
- Smart Client Click Once
 Application
- Web Application
- Local Cache Mechanizm
- Commpression



OTHER SOFTWARE INTEGRATED INTO CENTRALIZED BİLGE



Deployment

- November 2009 two small range Custom Office started as pilot
- February 2010 a middle range and a small range Custom Offices is started
- March April 2010 three small range Custom Office will be implement
- End of 2010 all Custom Offices will be implemented

Integration with IRU after Centralization

After the deployment of central applications We have planned to

- On-line integration with IRU
- Query on validity of carnet
- On-line TIR Volet 2 data transfer after inspection

e-TIR Integration:

 Turkish Customs is ready for e-TIR system because of central TIR application is started to operate

 Ready for e-TIR messaging system because of curent declaration system is using XML web services with e-signature

Able to integrate when e-TIR system is realized

DEVELOPMENT OF NEW COMPUTERIZED TRANSIT SYSTEM (NCTS) AND INTEGRATION TO BILGE

Project Objectives

General

 Proper protection of the future external borders of the EU through a modernized Turkish Customs Administration (TCA) to ensure that it is in a position to fulfill the tasks and obligations of an EU Member States Customs Administration.

• Specific

 EU compatible Customs IT systems (NCTS applications) installed and fully operational at the end of the project and in line with the EU requirements in terms of interconnectivity and interoperability.

Main Achievements

Project Iteration I

- Vision documents
- Analysis and design documents
- Software Prototype fully functional 07 Jul 2009

Project Iteration II

- Analysis and design documents
- Software Beta version installed and tested 11 Nov 2009

Project Iteration III

- Analysis and design documents
- Software version 1.0 installed and under tests 8 Jan 2010
- Integration of the software with BİLGE user authorization management module is performed.
- Integration of the software with the Ministry of Transport is performed.
- Integration with BİLGE under tests
- User Manuals for version1.0 under development
- Workshop together with twining team for NCTS users
- Project is in schedule (time, costs, resources, deliverables) 82%
- Activities for first 4 Quarters accomplished.

