

# SMART University

We are ready to prepare you University  
for  
Next Generation Universities Network

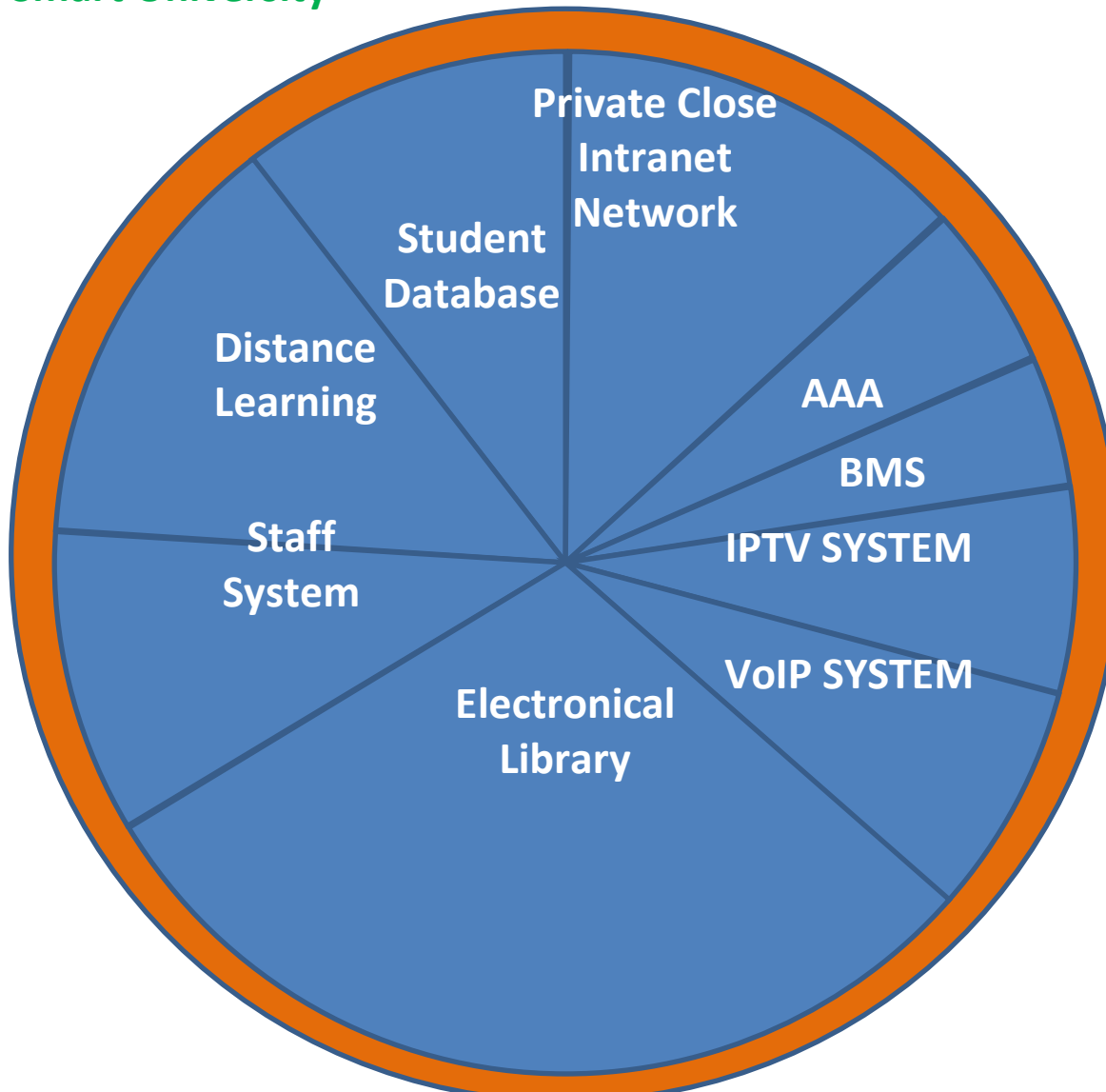


## What is Smart University?

Connecting user devices, networks and services with unique system to provide various customer services, with the level of quality from the world of telecommunications, the number of possible ways of approach. The convergence between media, IT and telecommunications industry is inevitable when it comes to multimedia services, we can confirm deployments of IPTV and Mobile TV solutions, and many others.



## What is Smart University



## How we see Smart University?

### For New Campus build converge system with:

- Private Close Intranet Network;
- Student Database;
- Secure system for AAA (Authentication, Authorization and Accounting)
- Building Management System
- Content Acquisition and Distribution Support Centers
- Course system
- Distance Learning System
- Administrative system
- Intranet Service Provider
- VoIP system
- Electronic Share Library

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- Electronic Share Library

## Why you need Smart University?

Benefit for Students:

- 1.Using all e-Library from Next Generation Universities Network
- 2.e-mail with huge storage
- 3.Share documents StS
- 4.Share documents StP
- 5.Share Projects in University and between Universities
- 6.Work together students from different Universities in same Projects
- 7.Connecting StS between Universities over forum, chat, conference call and VoIP
- 8.Connecting StC from students home
- 9.Smart e-university card

Students will be used our free application for connecting StS for free.

- voice
- video

## Why you need Smart University?

Benefit for Professors:

- 1.Using all e-Library from Next Generation Universities Network
- 2.Share documents PtP
- 3.Share documents PtS
- 4.Share Projects in University and between Universities
- 5.Work together professors from different Universities in same Projects
- 6.Connecting PtP between Universities over conference call and VoIP
- 7.Connecting PtC from office
- 8.Smart e-university card

Professors will be used IP video phone for free.

- voice
- video

## Why you need Smart University?

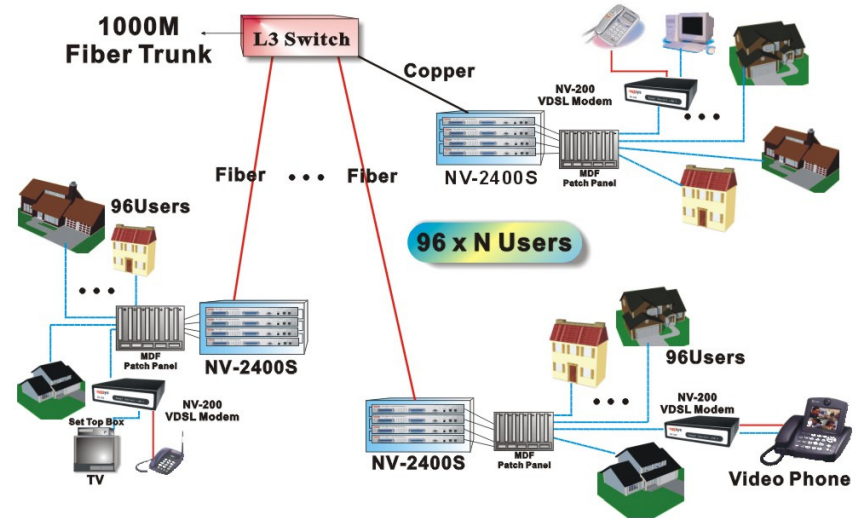
Benefit for Universities:

- 1.Recovery Data Center
- 2.Smart e-university card
- 3.Monitoring and control all buildings and parking places over BMS from one site
- 4.Tracking system for furniture, PC and other mobile asset as part of BMS
- 5.Energy efficiency
- 6.All calls over VoIP network among Universities will be free
- 7.All courses will be record to e-Library

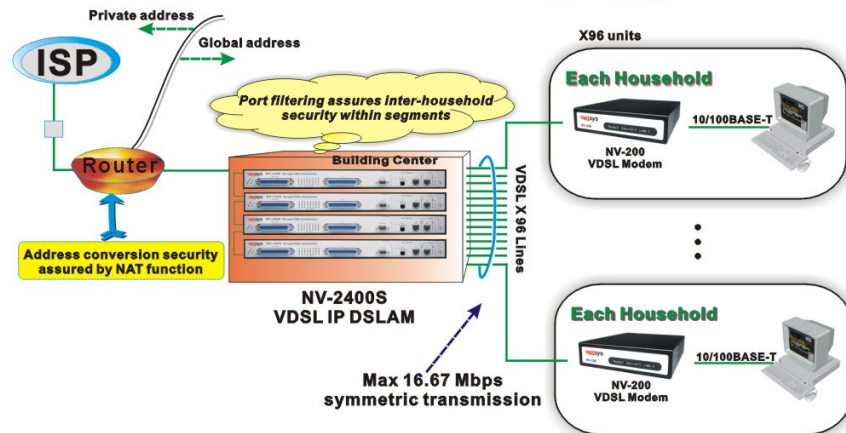
## Private Close Intranet Network

- University Private IP Network
- Multi-services
- Convergate
- Flexibility
- Scalability
- Huge capacity and
- Secure

## 96 x N Users VDSL Application



## 96 x N Users VDSL Group Application



## Student Database

- The data architecture provides a model for describing the data that is processed by the system (i.e. metadata).
- The application architecture models the processes performed by the system. In the case of Smart University the processes relate to the storage and retrieval of documents, enforcement of security and privacy and registration of users.
- The technical architecture identifies the requirement for a hub and spoke network of Smart University DB&S and POR (Point of Registration). It is recommended to have at least 2 hubs for backup and recovery but adding more hubs in big University canters should not be a problem but is not requirement. However requirement is online synchronization between all hubs.

## Secure system for AAA (Authentication, Authorization and Accounting)

Smart university is required to conform to university industry and government security standards. The Smart University Security Review assessed the risks in relation to these standards and recommended a set of security countermeasures comprising:

- Identification/Authentication. Verifying identities.
- Access Control. Allowing authorised identities to only access data they are entitled to and perform only the functions they need (create, read, update or delete).
- Message Protection. Controlling data confidentiality, privacy and integrity and the controlling of system access (secure protocols, encryption).
- Detection/Monitoring. Proactive monitoring of user and system activity.
- Audit/Logging. Tracking actions and events to unique individuals or entities.
- Resilience. Fault tolerance, redundancy and recovery.

## Building Management System

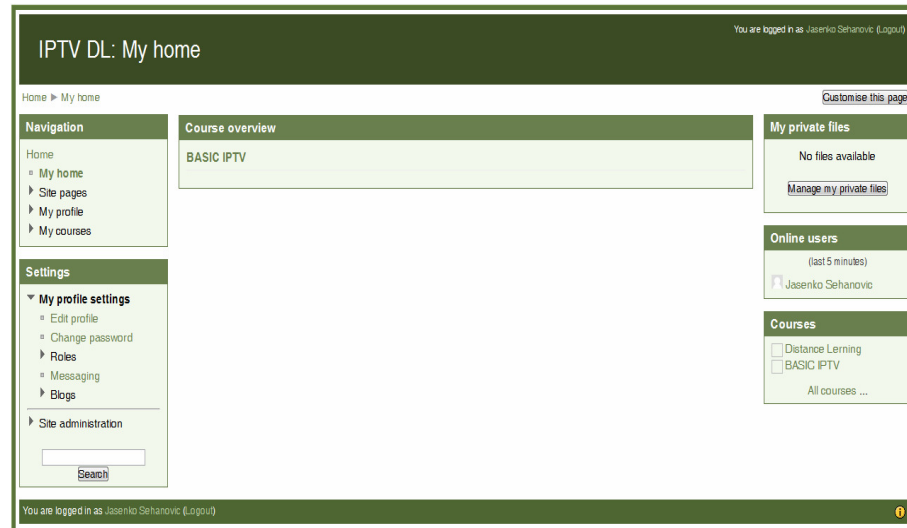
- Communal service system is divided into several sub-systems that must be integrated in a Building Management System .
- HVAC
- Sprinkler system (anti-fire)
- Sound system (PA)
- System for measuring the electric consumption. energy (for tenants)
- Garage parking system
- System Fontana
- Elevator System
- System of generators and transformers

## Content Acquisition and Distribution Support Centers

- The role of the centers is to support Content Acquisition, production and Distribution for TV, radio and new media platforms.
- Teleinformatica has developed TI-CADS, a combination of Contact Centers and Media Servers for streaming and VoD.
- TI CADS supports IPTV, iTV, VoIP, SMS, E-mail, Web, WAP, USSD and Fax communication.
- They have been developed to support very high traffic volumes with hundreds of operators posts, powerful IVR (including Text to Speech and Speech to Text) and storage capacities.
- Every contact type is registered to the Data Base and tied with all previous records of the customer.

## Distance Learning System

- Create courses
  - Participants
    - Blogs,
    - Notes
  - Reports
    - View courses logs
    - Activity reports
    - participation reports
  - Course administration
    - Turn edit on
    - Edit settings
    - Filters
    - Grades
    - Backup
  - Question



## Administrative system

System for basic information about staff

- Professors
- Assistants
- Instructors
- Technology assistants and
- Support staff

## Intranet Service Provider

- Web page for each departments
- e-mail address for each students with no-limit space for e-mail storage
  - [name.familyname@department.univesity.edu.sa](mailto:name.familyname@department.univesity.edu.sa)
- Forum for students
- Chat for students
- Web page for each student
- Web page for each project
- VoIP number
- Web document storage
- Documents sharing

## VoIP system

For years, telephone networks were run by large companies spending billions of dollars to set up systems that connected to one another over wires, radios, and microwaves. Large machines, filling entire buildings, allowed people to talk to each other over great distances. As the computer revolution progressed, the machines got smaller and more efficient, but still they were almost exclusively the domain of a small sect of companies.

But what exactly is VoIP? VoIP is a method to carry a two-way conversation over an Internet Protocol–based network. The person in the Saudi Arabia using Windows Messenger (MSN) to talk to his extended family in Europe? That's VoIP. The 18-year-old playing internet games on his PC and talking to his teammates over Skype about how they slaughtered the other team? That's VoIP, too.

## Electronic Share Library

Library for:

- Electronic books
- Multimedial contents
- Multimedial Courses
- Sharing private all or part of library between university
- Sharing public part of library

## Our Solutions

- Details Functionality Specification work together
- Our solutions is for new and existing combas
- We are owner of Source code and we are OPEN for new ideas
- All parts of our solutions has been tested in Bosnia and Herzegovina
  
- Create University Close and Private Network
- Create Recovery data center for all University
- No limit end user
- Multilanguage menu
- Only one pay system
- No additional licenses
- Maintains on the site after sale
- Our solutions is opet to adapt any change require for life time
- **Our Saudi based company response for project**
- Our solutions is turn-key project
- Our price is compatible with other solutions

**Thank you**