VoIP Management and Security

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The three important things

- Subscription Management (SuM)
- Enterprise Information Model
- Identity management

And a new design method
- Service Orientated Architecture
Inspiration for observations

- **IMS Management in 3GPP SA5**
  - TS 22.228 v7.0.0 IP Multimedia Core network Subsystem Stage 1 (Release 7)
  - TS 23.228 v6.7.0 IP Multimedia Core network Subsystem Stage 2 (Release 6)
  - TS 23.008 V6.7.0 Organization of subscriber data
  - TS 32.141 V6.1.0 Subscription Management (SuM) architecture
  - TS 32.172 V6.2.0 Subscription Management IRP Information Service (IS)
  - TS 32.632 V6.2.1 Core network resources Integration Reference Point (IRP) Network Resource Model (NRM) R6 32.

- **ETSI TISPAN WG8 IMS Management for Fixed Mobile**
  - DTS 188 002 TISPAN Subscription Management Requirements

- **TMF IPNM VoIP management**
  - TMF 514 VoIP Business Requirements
  - TMG 611 VoIP Implementation Agreement
  - VoIP Information Model
Where does IMS fit into management?

TMF eTOM Process Framework
TISPAN Subscription Management

Subscriber

Customer Care

Subscription to Network Information

Network Information to Network Configuration

Subscription Activation

Service Provider

Other Actions/Operations

Subscription Management

Users

Give Rights

Use Services

Auto Configure

Subscribe
Enterprise Information Models
The SID Business Framework (GB922)
Current TISPAN model 10bTD149
Current SuM Model issues

- Discovered by “do-not-disturb” Use case
- Service Specialisation/ classification
- Cardinality and aggregation relationships
  User < -- > Service Profile
- User Roles
- Learned Credentials
Identity Management

From TS 23.228
Service Orientated Architecture

Traditional Static Architecture

System/Application Interface
Assumption that relationships are static and 1:1

Exposed business functions
Relationship N:1 and dynamic
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Spares
TISPAN Architecture based on IMS
TISPAN Information Model