

The new challenges

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A few years ago, most service providers were offering a very limited number of services, each over a distinct technology. Regulation in this context was very much linked to the technologies

With NGN/IMS, we find for the first time a single technology that can handle any service from voice to multimedia covering consumer and enterprises...

Regulation has to adapt to this new situation and move from a technology to a service focus.

In this context, it is also important to clearly define the services in a regulation context. In the new world, will the regulator:

regulate the service from a phone covering all options?

or will they regulate the "voice calling service" from any device?

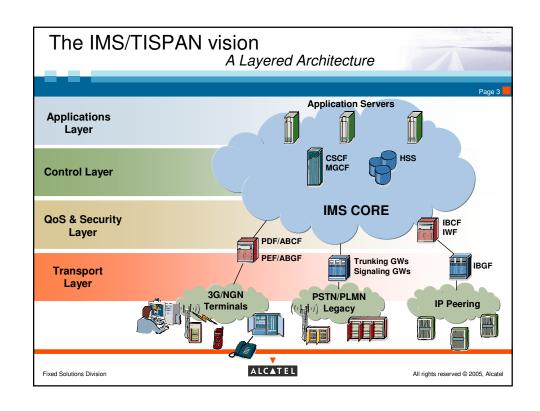
or will they just regulate services from the first phone?

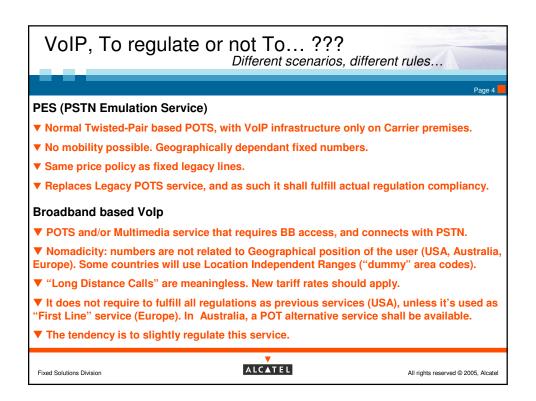
or will they impose regulation on all services?

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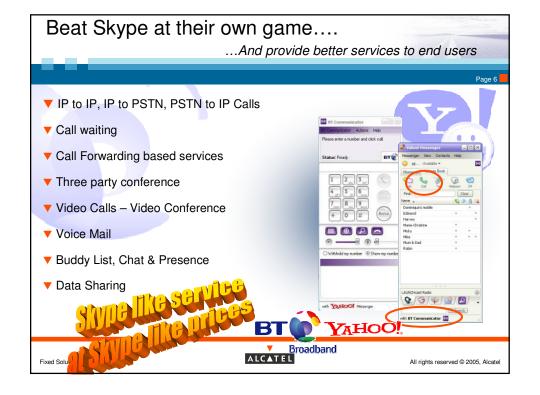


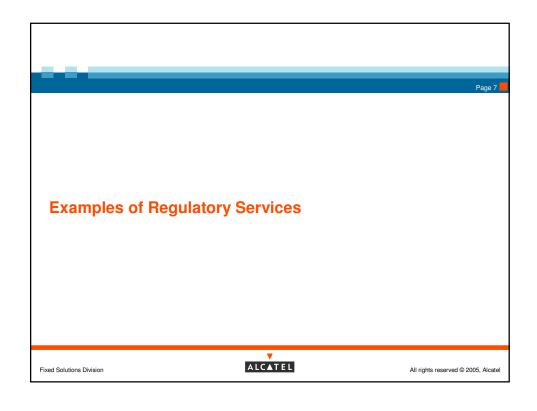
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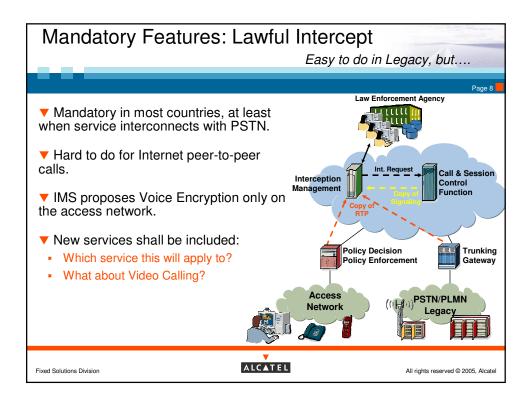


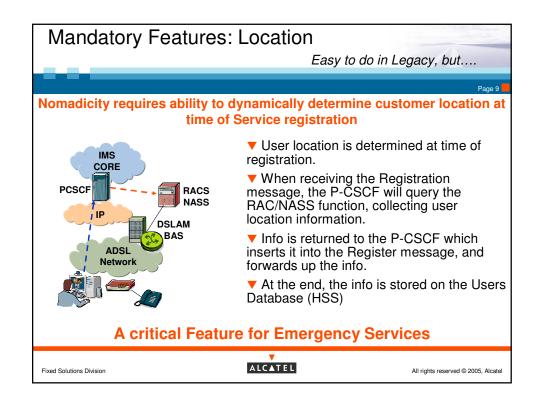


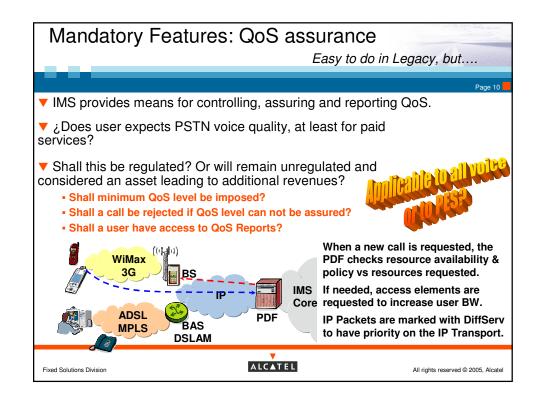
VoIP, To regulate or not To…??? Different scenarios, different rules... Page 5 Internet based "Free Volp" ▼ Peer-to-Peer sessions that does not connect with PSTN ▼ Legal in most countries (USA, Australia, Europe). Tendency is not to regulate them. ▼ Cannot be blocked by provider (USA), unless indicated on the contract (Australia). Trends on Europe shows blocking will be illegal. Most of the operators are not blocking it. ▼ QoS can not be assured. ▼ The tendency is to fight against them with better quality services, with local PSTN connection and advanced services. The previous scenarios shall be regulated in different ways, because are different services, with different characteristics and purposes.











Mandatory Features: Lifeline Support

Easy to do in Legacy, but....

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- ▼ This is not an issue for PES systems
- The VoIP is implemented on the Carrier's side of the network. User keeps its classic POT service over the a/b wire with remote feeding etc.
- ▼ Requires some extra effort for a wireline Broadband Volp operator:
- There're IADs available with automatic switching to POT line in case of failures.
- This will mean classical POT service shall remain, either with Legacy or NGN-PES infrastructure.



- ▼ Not possible to implement on a wireless Broadband VoIP operator.
- Several countries do not consider this as mandatory
 - ▼ Service shall be available only if user request it, and under the figure of a Legacy or NGN-PES POT service.

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The Australian's situation

Beautiful things that do not combine together

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- ▼ All access providers need to set the SAME PRICE for the SAME SERVICE in all parts of Australia:
- In order to break even when offering services to remote parts of the country, the access provider needs to charge more for services in the cities, and use the extra revenue to offset the losses outside the city.
- ▼ The regulator can force Telstra to unbundle DSL services. Telstra can only ask cost plus for unbundled loops:
- As loops in the city are much less expensive to maintain than loops in the country, the regulator forces Telstra to charge less for unbundled city loops.
- ▼ Competitors are not forced to offer services everywhere. So, they can offer services only where wholesale costs are low, and meet the obligation to offer national pricing, offering at the same time cheaper prices than Telstra.
- ▼ So, if Telstra wants to do national-wide investments for leveraging the service, they'll see that their investment in the most profitable areas will be used by competitors in order to provide cheaper services and increment their market-share. Users will choose on that areas to go with competition due to lower prices than Telstra.

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