

The TW[®] Project

Mario Cardarelli

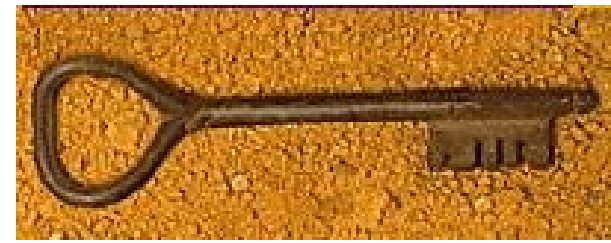
tv.tw@tiscali.it

Vito Asta

vasta@redhat.com

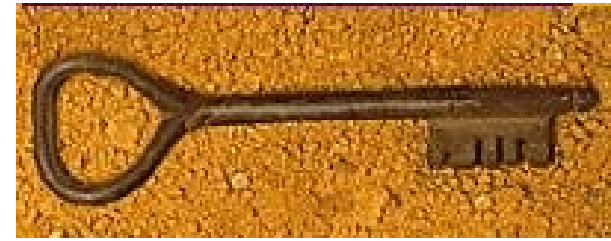
April 2008

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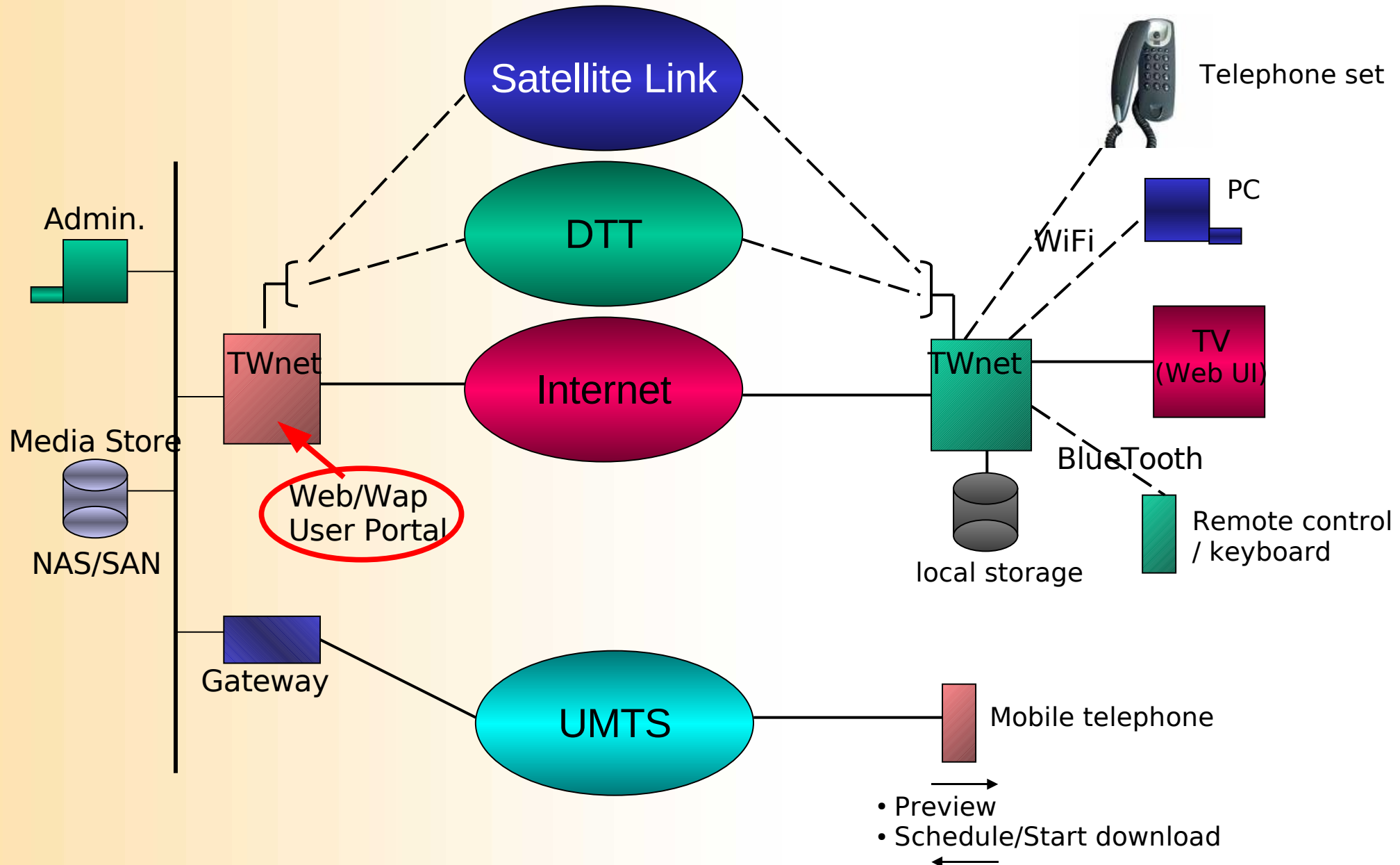
- A full-featured solution for DVB
- Based on Digital Video technologies
- Implemented on top of TWnet[®], a multicast platform based on Open Source components
- Features:
 - Digital TV: digital technology and contents
 - Interactive TV: direct relationship between consumers and providers (contents, services etc.)
 - Classical TV: as easy to use as a standard TV set

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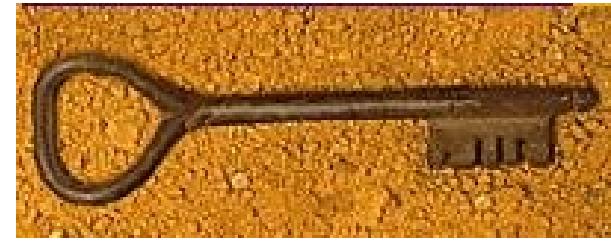


- Compatible with most transmission/broadcast solutions: cable, DSL/Internet, satellite, antenna etc.
- Supports whole range of customer features
- Foundation for a global landscape, supporting all stakeholders:
 - Content owners
 - Distributors/Broadcasters
 - ISPs/Telcos
 - Advertisers
 - Users/Customers
 - Right holders

TW – Solution Overview

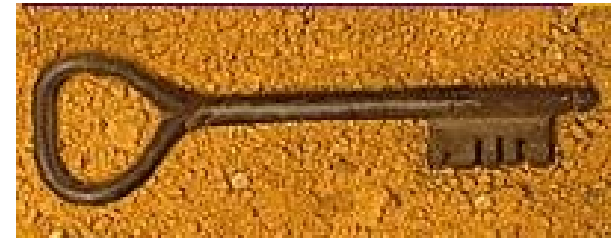


The TWnet Platform



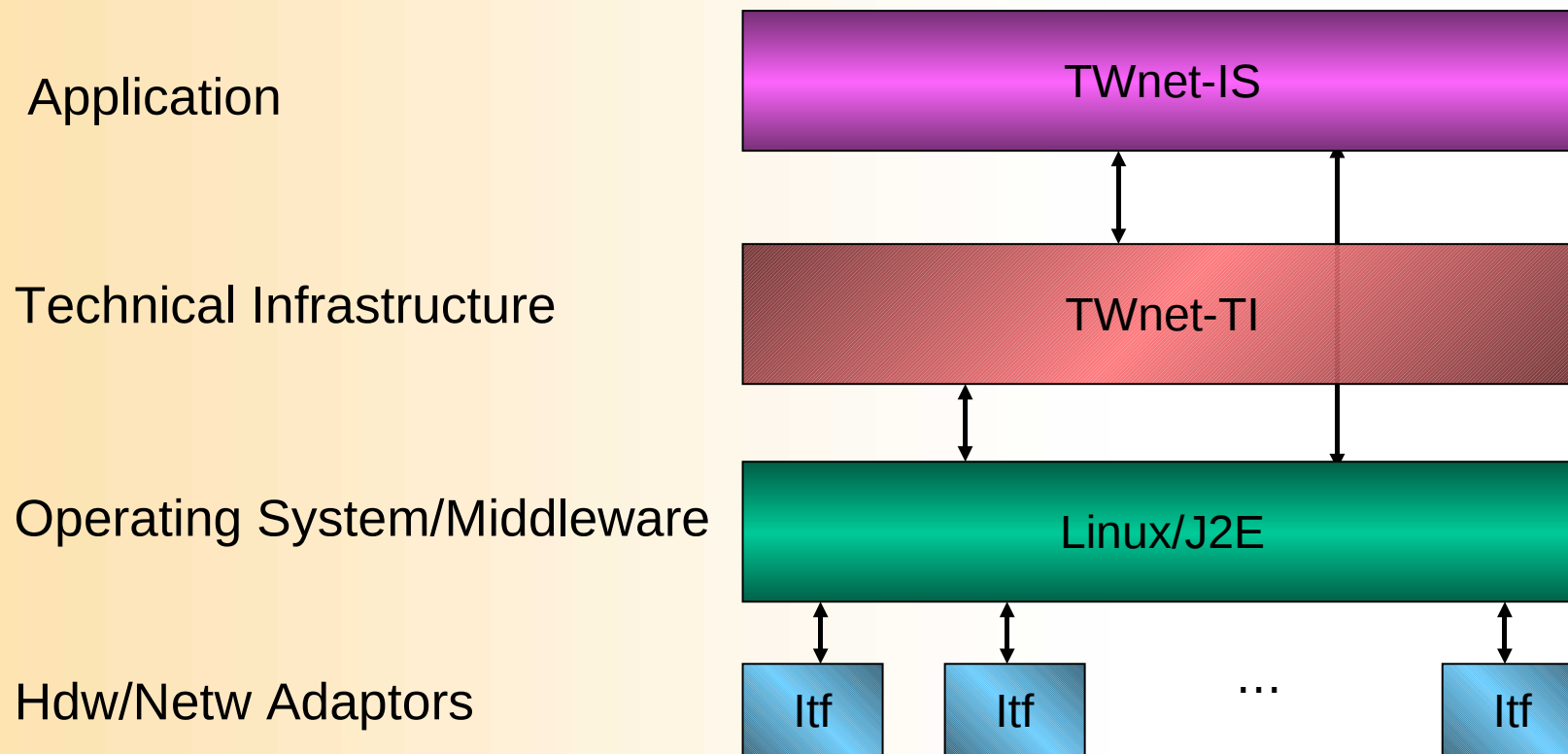
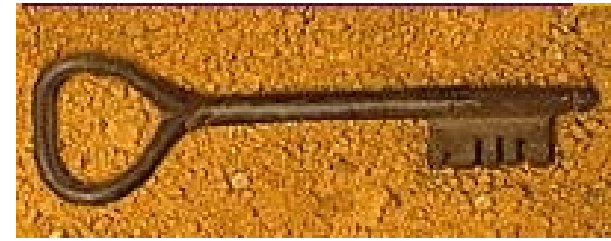
- Technical implementation of the TW solution
 - Server and Client side
- Built on top of the Linux OS and the JBoss J2E middleware platform
- Two main components/layers:
 - TWnet-TI: fully-featured technical infrastructure
 - Acts as global coordinator of the solution
 - Ensures hardware/software compatibility and interoperability among all components and stakeholders

The TWnet Platform

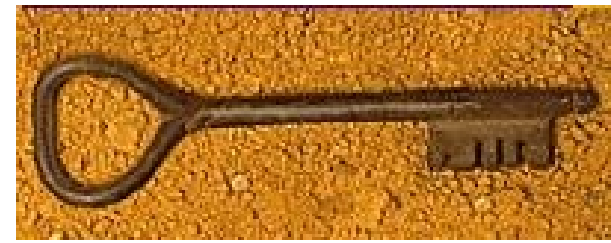


- Two main components/layers (2):
 - TWnet-IS: the application itself
 - User portal
 - Information handling
 - Format conversion
 - Database
 - All required features
 - Ensures application- and business-level interoperability

TWnet Software Architecture

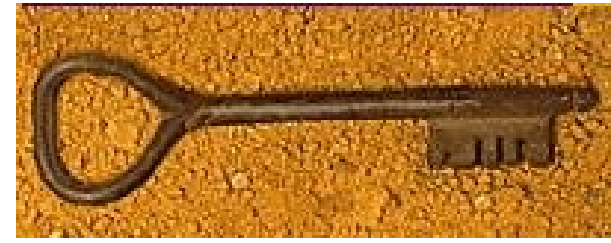


TW-IT Layer Capabilities



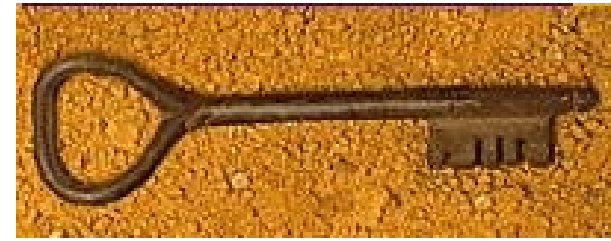
- TW-IT + Linux layers provide:
 - Drivers and network protocols -> HAL
 - Internet
 - LAN, DSL cards etc.
 - Networks access: Cable, Antenna, Satellite etc.
 - Authentication and Security mechanisms
 - Video coding/decoding, compression/encryption, streaming
 - Thanks to OSS production and business models, virtually all formats on the market landscape are supportable; architecture ensures easy add-on of new/emerging formats
 - This ensures long-term effectiveness for the solution.

TW-IT Layer Capabilities (2)



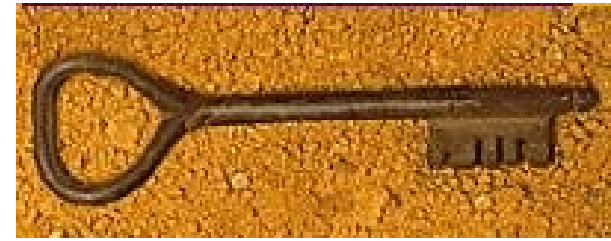
- TW-IT + Linux layers provide:
 - Virtualization technology, for system capacity planning, live migration, and easy maintenance of systems
 - Low-level clustering, for High Availability/Failover of services and entire systems
 - Clustered data storage, both for physical and virtual systems

TW-IS Layer Capabilities



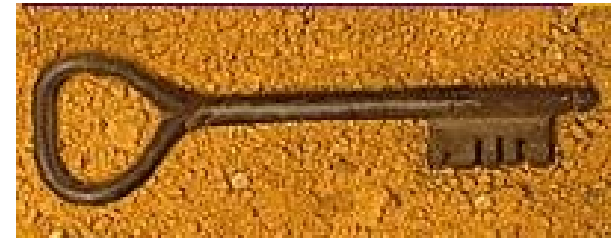
- TW-IS + J2E Middleware layers provide:
 - High-level clustering for Reliability, Scalability and High Performance of applications
 - Dynamic load balancing, stateful session failover, persistent objects
 - Central hub for dynamic component orchestration
 - Format/Content-based routing of data and media streams
 - Remote administration

TW-IS Layer Capabilities (2)



- TW-IS + J2E Middleware layers provide:
 - User portal
 - Content-Management System
 - Seamless connection to Database and User devices
 - Management of data sources, data security, event logging & accountability, self-diagnostics, intelligent storage & backup, etc.

The Team



- Mario Cardarelli
 - International economist
 - Essay writer
 - Expert in Marketing and Finance innovation
- Vito Asta
 - Senior executive in ICT companies
 - International experience
 - Former founder and CTO of technological start-ups in various European countries
 - Strong experience/knowledge of Open Source Software, at business level and technical level

Our Assets



- Several registered trademarks, including TV.TW[®]
- Domain names, and related web sites
- Intellectual property rights
- Patents
- MaXX platform, foundation for the new TWnet platform
 - 1+ million lines of code; technical know-how
- Process and Product Innovation best practices
- Experience
- Branding