



FIMS **Framework for Interoperable Media Services**

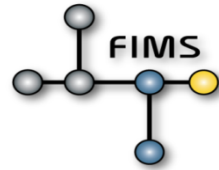
**EBU – AMWA FIMS**  
**Framework for interoperable Media Services**

IBC'2010

Amsterdam, 11 September 2010

**Giorgio Dimino, John Footen, Brad Gilmer, Jean-Pierre Evain**

RAI, Chime Media, AMWA, EBU



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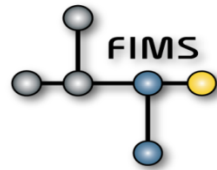


# What & Who is FIMS?

- A joint EBU-AMWA project since December 2009
- FIMS is a “Framework for Interoperable Media Service”
- FIMS participants do not have to be an EBU or AMWA member



- AMWA and EBU background in this domain
  - AMWA MSAG (Media Services Architecture Group)
  - EBU ECI CP (Common processes)
  - EBU ECI NP (Networked Production)

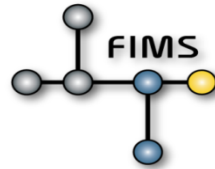




# Why FIMS? The business challenge

- For FIMS manufacturer members
  - Reduce costs
  - Reduce risks associated with integration
  - Competition and market differentiation on innovation (framework neutrality)
- For FIMS user members
  - Faster time of integration,
  - Lower cost and risk
  - Access to best of breed technology
  - No vendor lock-in
  - Easier cross-media multi-platform delivery
  - Flexible workflow adaptation to new businesses

**Solution: define standard interfaces at business level**

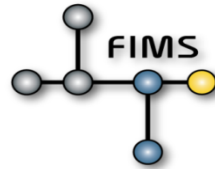




# Why FIMS? The technical challenge

- IT specific needs
  - Modularity, loose coupling
  - Workflow agility and framework independence
  - Scalability / upgradability / interoperability between vendors
  - Long-term maintenance flexibility (shorter IT innovation lifecycle)
  - Customisation: best of breed vs. turn-key solution (one doesn't fit all)
- Media specific needs
  - Highly collaborative, human workflow, geographically distributed
  - high-bandwidth transfers, time synchronisation
  - Quality degradation, multiple resolution

**The solution: a service based media framework**



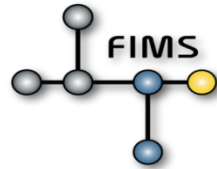


# SOA: 'when' and 'how'

- Many proprietary solutions claim SOA compliance
  - Most fail fulfilling the promise of openness and interoperability
  - However, a new level of maturity has been reached

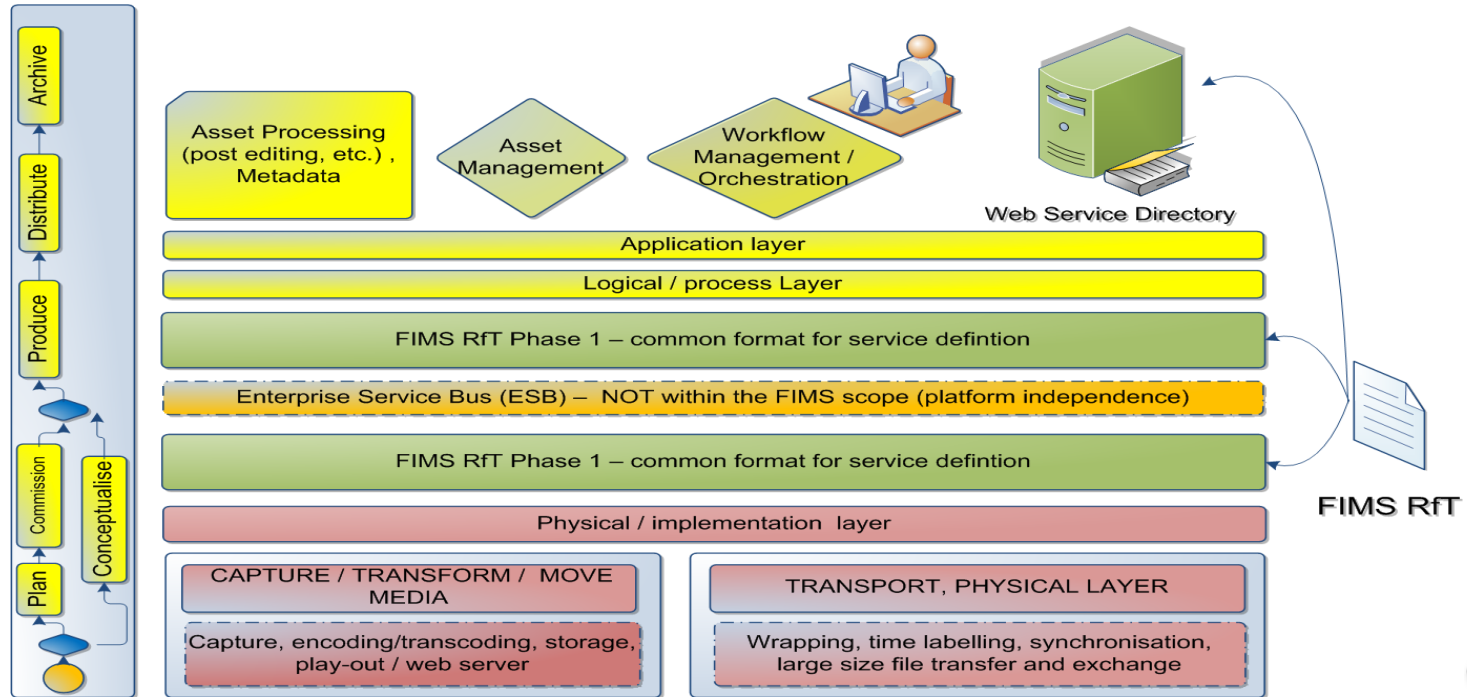
'When is NOW'

'How is FIMS'

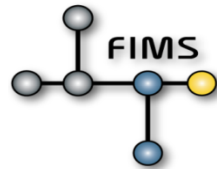




# FIMS Request for Technology: phase 1 scope

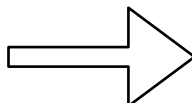
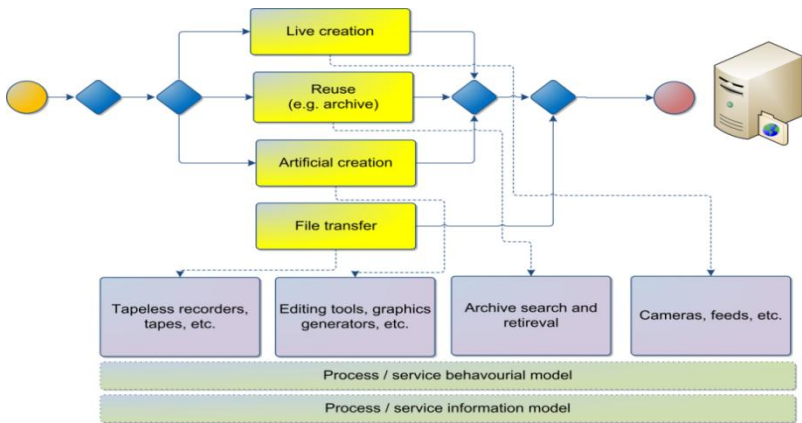


- Phase 1 focuses on the framework
- Specific services will be subject to another phase using phase 1 results



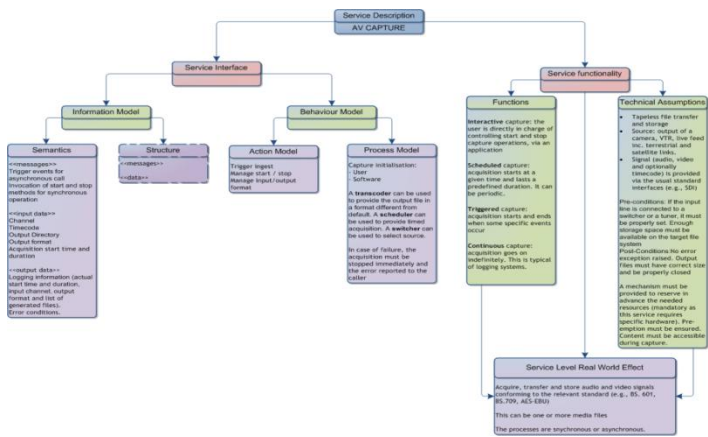
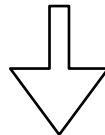


Web service definition: "a mechanism to enable access via internet protocols to processes via an interface described using predefined rules and procedures".

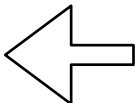


Process Analysis

Web Services, OASIS model



FIMS binding: REST, WS-\*





# Proposed FIMS Framework for standardisation

## High Level Architecture

- Reference Architecture
- Definitions

## Media Service Management

- Service lifecycle
- Service behavior

## Media Service Awareness

- Service Registry
- Service level agreements (SLA)

## Media Service Communication

- Service description
- Media Service interface Schemas
- Message format/patterns
- Operations
- Job descriptions

## Media Content Awareness

- Definition of an asset
- Media formats, wrapper adaptation
- Provenance/version

## Time awareness

- Scheduling for real-time
- Parallel simultaneous processes (streaming media, ingesting files)

## Security and identity

- Service security
- Media security
- Client context

## Framework Extensions

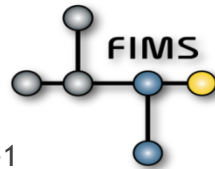
- Framework lifecycle
- Taxonomy
- SLA ontology

## Implementation bindings

- REST
- WS-\*

## Phase 2

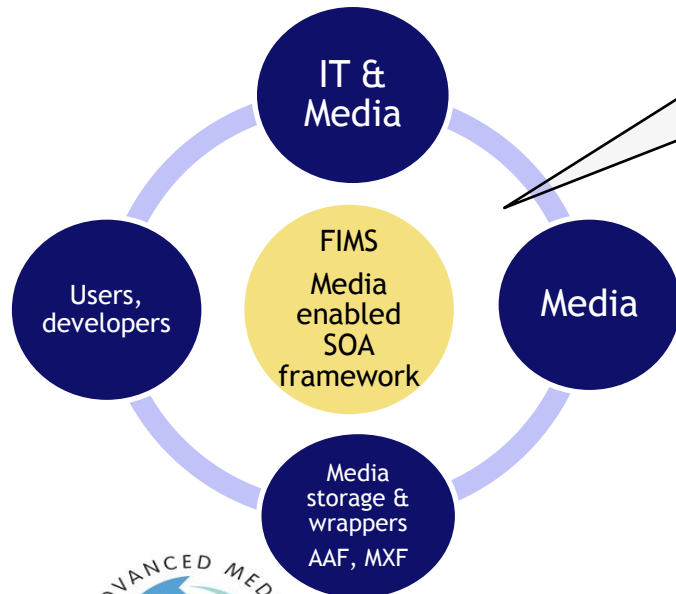
- More process analysis
- Identification of eligible services
- Request for technology and contributions received during RFT-1 using Phase 1 framework



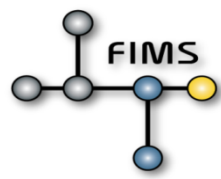




# The plan... 'compensation-free'



Have your say!  
Third party  
Participation  
Agreement



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# Next steps

## **2010, October 30 – First draft specification**

- Preliminary framework by IBM and Sony
- Based on the agreed FIMS framework

## **2010, December 31 – Consolidated specification**

- Taking into account requirements from other users and implementers
  - Amberfin, BBC, Cinegy, EBU
- Addressing storage and wrappers
  - AMWA, BBC, EBU

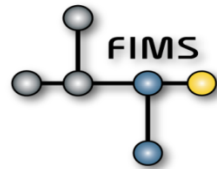
## **2011, April 9-14 – NAB**

- Proof of concept, demonstrations

## **2011, June 30 – Final phase 1 specification of the FIMS media SOA framework**

## **2011, April-June – RFT2**

- Service specification based on phase 1 framework





# Join FIMS

All phases of development of the FIMS specification will be public

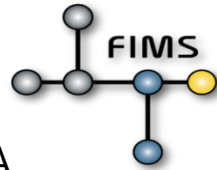
- Wiki: <http://wiki.amwa.tv/ebu>

**Take the opportunity to influence FIMS**

- You may still join and contribute even if you didn't respond to the RfT

**Participation is open under the following conditions**

- No need to be an EBU or AMWA member
- Ruled by the FIMS Participation Agreement terms
  - This applies to contributions in any forms and participation in meetings, webex, etc.
- FIMS project are governed by AMWA IPR Policy ([www.amwa.tv/policies](http://www.amwa.tv/policies))
  - No license required
  - Compensation-Free Reasonable and Non-Discriminatory License (RAND-Z)
  - Submitters retain IPR rights
- Implementers gain access to any compensation-free licenses through AMWA Implementers Agreement

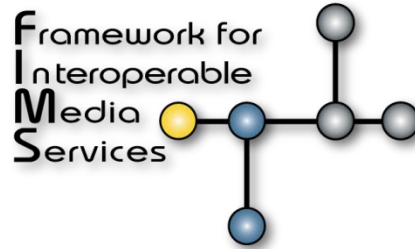




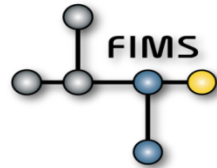
# Conclusions

Migration to SOA is key to our business in a healthy competitive environment

FIMS has reached a critical mass. Success is at hand.



**Be part of it !**



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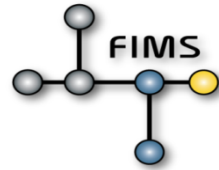


## FIMS Framework for Interoperable Media Services

**For more information:**

<http://wiki.amwa.tv/ebu>

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