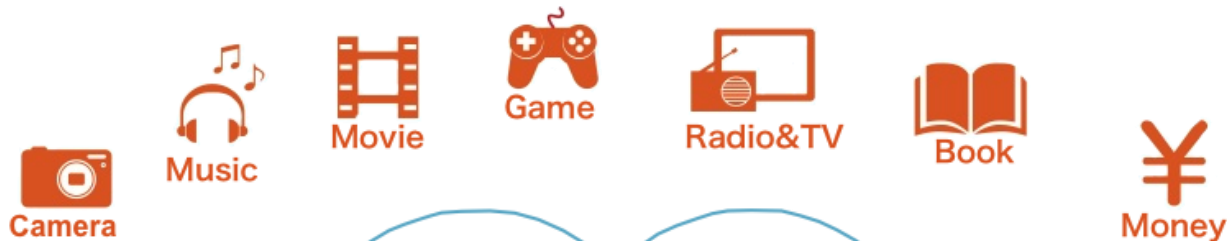


# “IPDB” Project

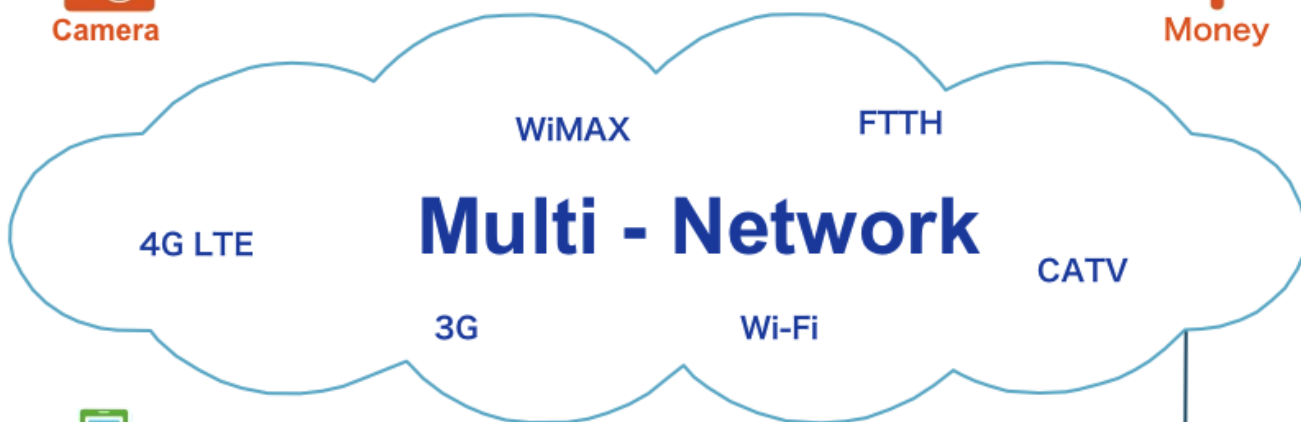
real-time session/user management system  
for KDDI mobile service

Hiromitsu Fujikawa  
Mobile Engineering Manager, KDDI

## Multi - Use



**diverse services  
and contents**



**seamless access  
and  
optimized network**



**any device of choice**

## Multi - Device

- In the year ended March 31, 2012, KDDI addressed the priority issue of recovering au momentum and enhancing our shift toward smartphones.



G'zOne IS11CA by CASIO



MOTOROLA RAZR™ IS12M



INFOBAR C01 by iida



URBANO PROGRESSO by KYOCERA



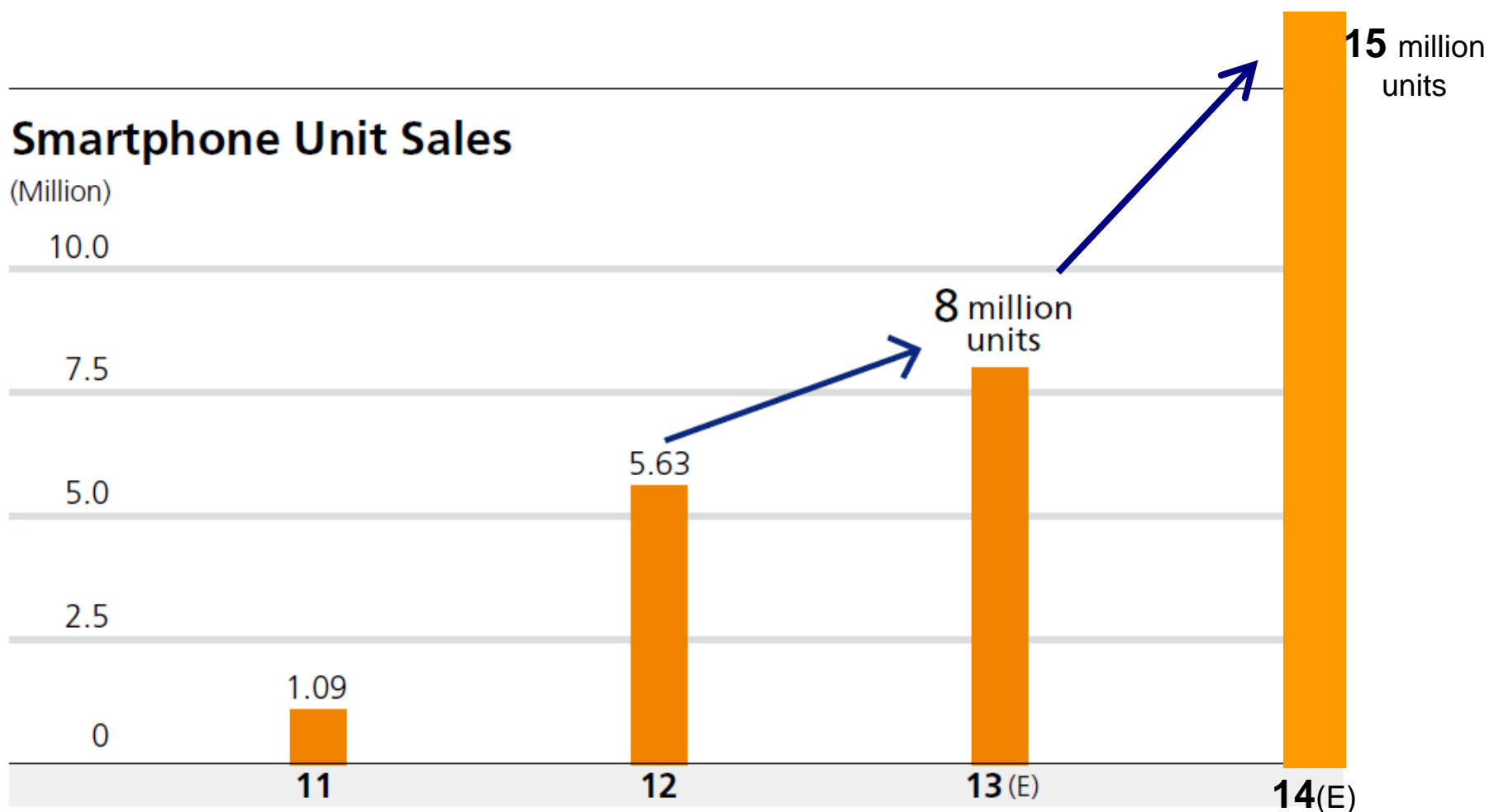
Windows® Phone IS12T by TOSHIBA



HTC J ISW13HT

# Unit sales of smartphones

- Unit sales of smartphones in the year ended March 31, 2012, surged by 4.54 million units, to 5.63 million units. Furthermore, we forecast smartphone sales of 8 million units for the year ending March 31, 2013.



**Multi-Use:**  
Need user profile

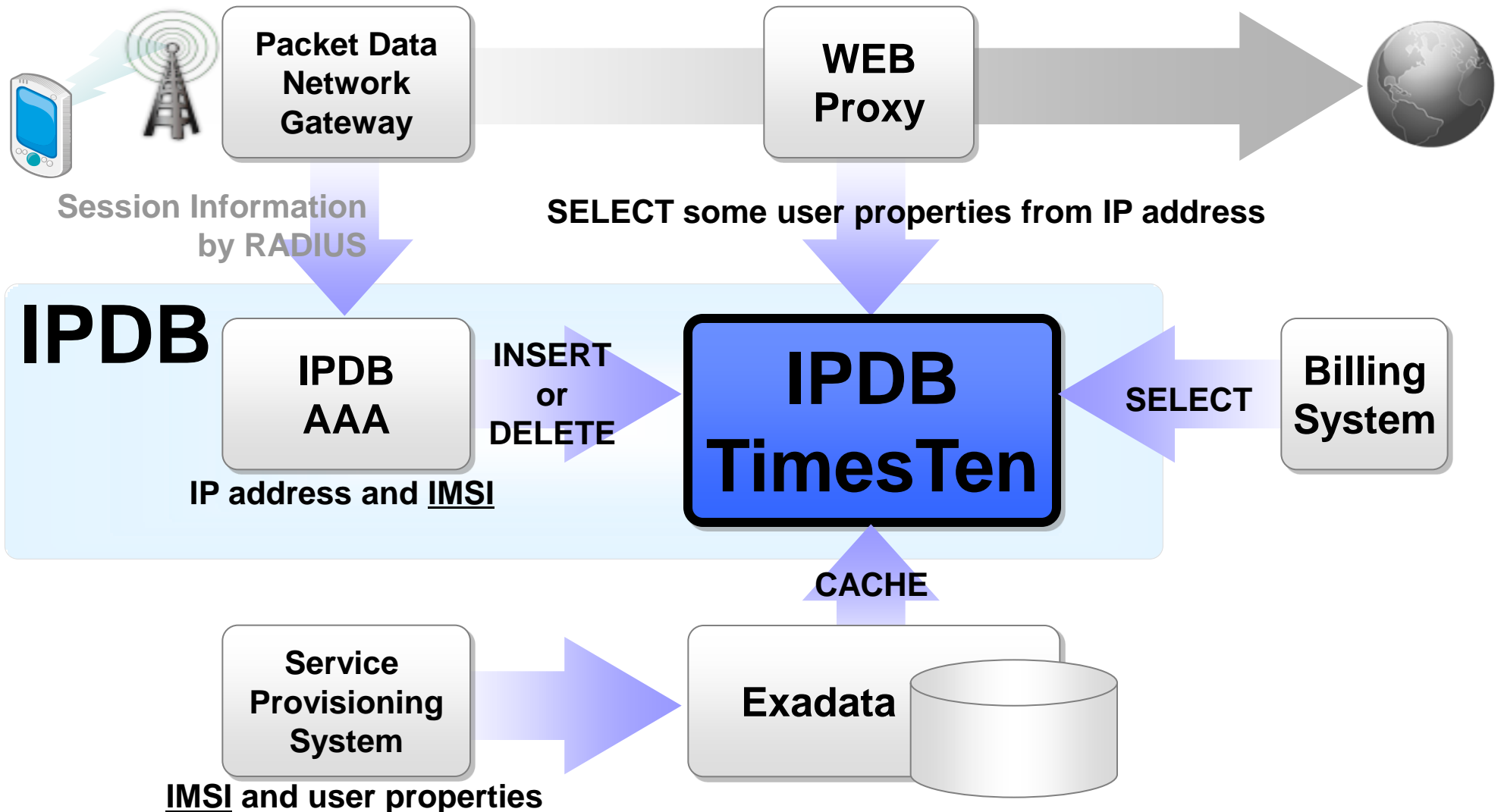
**Multi-Network:**  
IP address is  
dynamically  
assigned

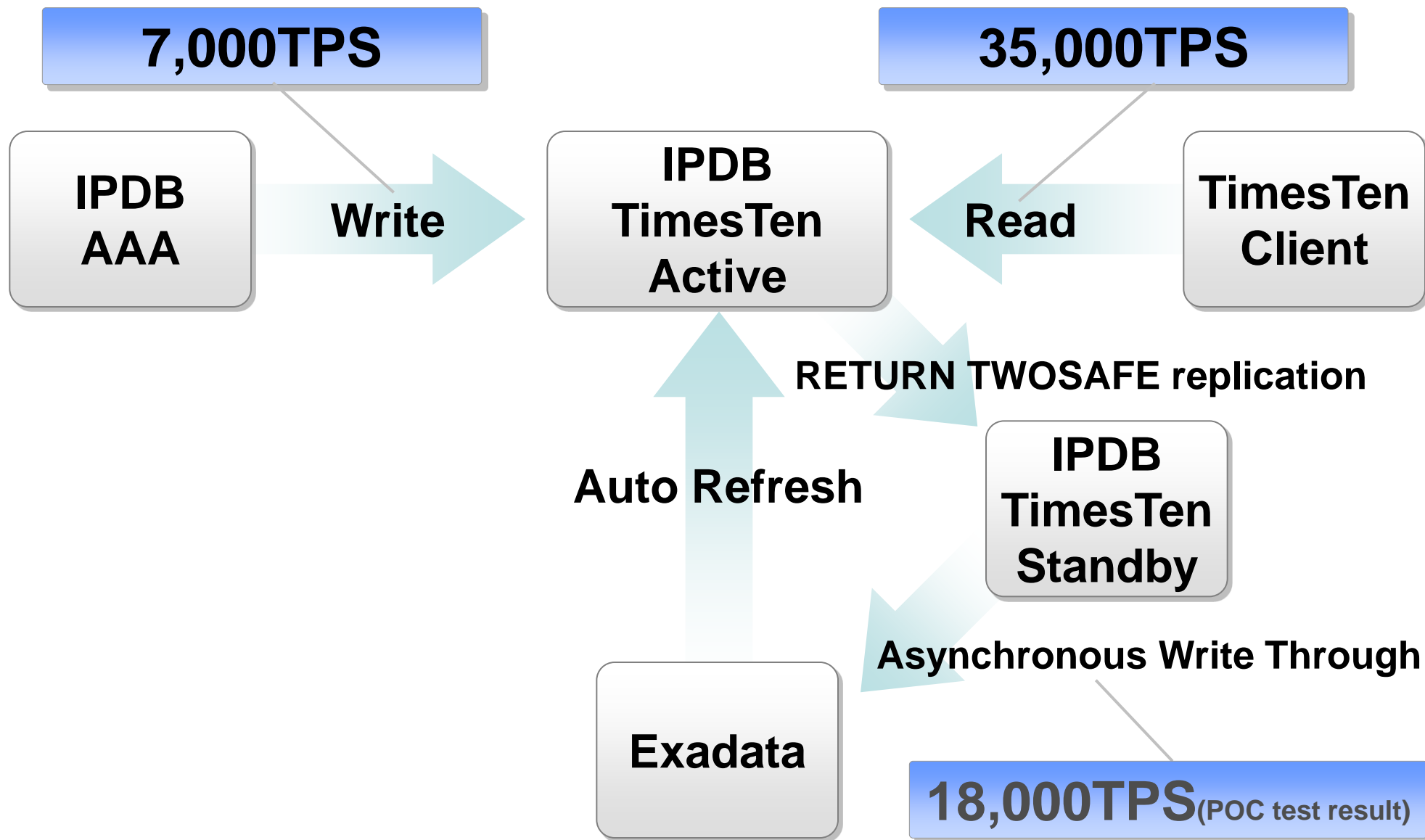
**Multi-Device:**  
Independent of  
terminal  
specifications



**We have to identify the user profile by  
assigned IP address in real-time.**

# Identify the user by assigned IP address





	Requirements	Results/Solutions
✓ Consistent Latency	Less than 10msec	Less than 1msec (Average)
✓ Write Transaction	4,500 TPS	7,000 TPS
✓ Read Transaction	10,000 TPS	35,000 TPS
✓ Reliability	Active-Standby Synchronous replication	Active Standby Pair RETURN TWOSAFE replication
✓ Active Session	10 million session	depends on physical memory size
✓ User properties cache size	50 million user	depends on physical memory size
✓ Storing data	Store Session Information to Exadata	Asynchronous Write Through



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*Designing The Future*

**KDDI**