



# Technical session - fundamental format for exchanging usage statistics

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## What elements of description are needed?

- Who: User
- Who: Session
- What: Item
- What: Type of request performed (Available requests/services)
- When: Date and time
- (Identity of service)
- (Referrer)
- (Referring entity)
- (http request/response code)
  - (Failed/partially fulfilled requests)
- Usage event ID



## User / Sessions

- Pseudonymization
  - UUID
- non-human access
  - Basic concept: awstats-list and # downloads in 24h
  - Should be tagged not deleted
  - Imperfect world!
- Identification of sessions
  - Session cookies (and other approaches possible)
  - Even tracking cookies
- Conflate user and session
- Session as the more general concept
  - Could contain IP etc. as well



## Items

- Granularity
- Structure / Relations
- Different PIs
- Deduplication
  - Is an issue for aggregating services



## Transporting usage events

- OpenURL Context Objects
- OAI-PMH
- (Webservices, ftp ...)
- Providing and deleting data