

**Draft Implementation of the
9-character IGSN
for the Bremen Core Repository**

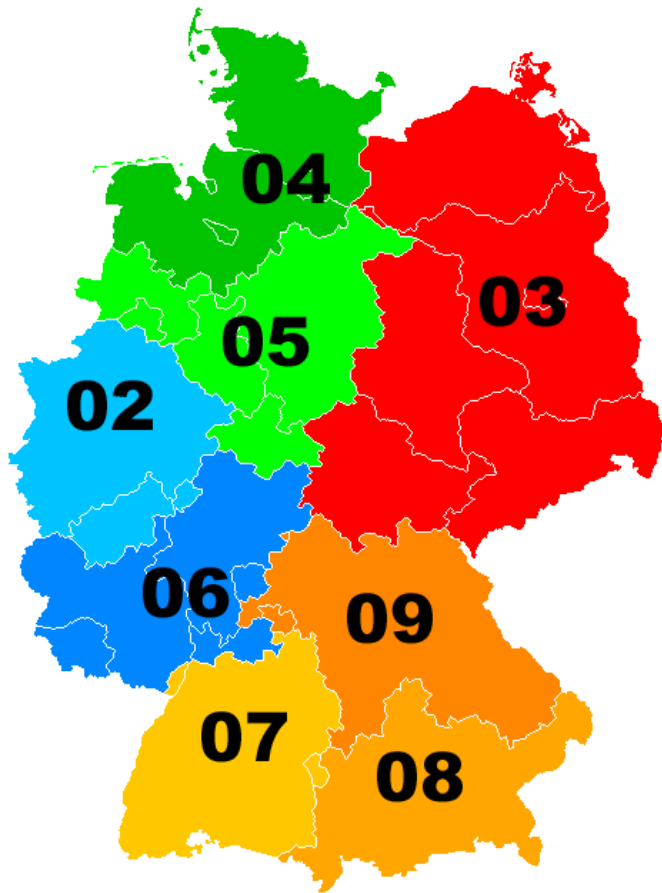
Situation at the Bremen Core Repository

- 347 ODP/IODP Expeditions (86 in BCR-DIS)
- 2 million samples in BCR-DIS
- Off-shore data are captured in individual Expedition DIS
- On-shore and repository data are curated in the BCR Curation DIS

The Challenge

- All Expedition DIS operate autonomously, no real-time synchronisation between each Expedition DIS and the Curation DIS.
- Unique identifiers (IGSN) have to be generated on board to be printed on labels. They are later transferred to the Curation DIS in a one-time operation.
- Samples from on-shore parties are entered into the Curation DIS.
- Requirements cannot be met within the 3+6 IGSN syntax.

The Area Code Principle



Berlin:

030 ABCD EFGH

Potsdam:

0331 BCD EFGH

Klein Gottschow:

033983 D EFGH

Proposed BCR IGSN

- Expedition DIS

IGSN:AB CD E FGHI

- AB – Bremen Core Repository Prefix(es)
- CD – Expedition Code
- E – Sample Group (required by DIS arch.)
- FGHI – DIS item ID (from RDBMS, max. 1,048,576 items per group)

However, ...

- Four characters are too short to encode all sample item IDs in the Curation DIS.
- Samples from on-shore sampling parties cannot be synchronised with the respective Expedition DIS.
- Curation DIS is operated independent of expeditions.

Proposed BCR IGSN

- Curation DIS

IGSN:AB C D EFGHI

- AB – Bremen Core Repository Prefix(es)
- C – Sample Group (required by DIS arch.)
- D – Reserved character (S)
- EFGHI – DIS item ID (from RDBMS, max. 33,554,432 items per group)

Discussion

- Pros:
 - 9-character syntax
 - IGSN can be generated on board and printed on labels
 - IGSN is not mnemonic
- Cons:
 - One namespace will last for 1000 expeditions
 - Requires administration and cannot be generated wholly from Expedition DIS internal information
 - IGSN is not mnemonic