



# Since early 70s

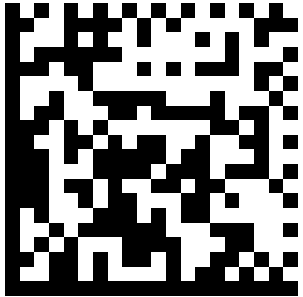
---



9506000134352

# More data

---



GTIN	09506000134352
Batch/lot	ABC
Serial No.	1234
Expiry	30 June 2023

# GS1 Element String syntax

---

(01)09506000134352(17)230630(10)ABC(21)1234

# GS1 Digital Link 101

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<https://example.com/01/9>



# GS1 Digital Link syntax

---

GTIN



<https://example.com/01/9506000134352>

# GS1 Digital Link syntax

---

GTIN

Batch

<https://example.com/01/9506000134352/10/ABC>



# GS1 Digital Link syntax

---

GTIN

Batch

Serial

<https://example.com/01/9506000134352/10/ABC/21/211234>

# GS1 Digital Link syntax

---

GTIN

Batch

Serial

Expiry

<https://example.com/01/9506000134352/10/ABC/21/211234?17=230630>

# GS1 Digital Link cf. GS1 Element String syntax

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(01)09506000134352(17)230630(10)ABC(21)1234

GTIN

Batch

Serial

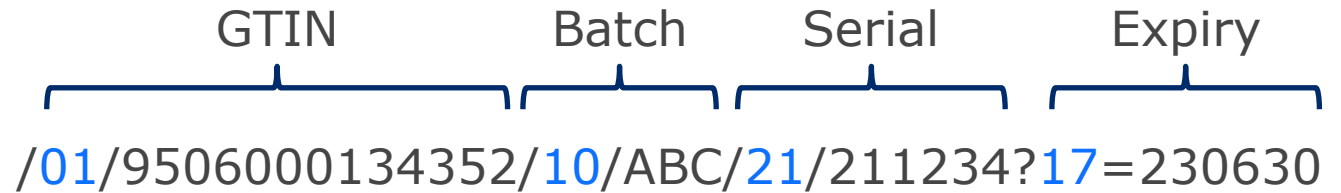
Expiry

<https://example.com/01/9506000134352/10/ABC/21/211234?17=230630>

# GS1 Digital Link cf. GS1 Element String syntax

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(01)09506000134352(17)230630(10)ABC(21)1234



# Offline

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Point of sale



Supply/stock

# Item identifier URI

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Class

Instance



<https://example.com/01/9506000134352/21/211234>

```
"linkset": [
  {
    "anchor": "https://id.gs1.org/01/09506000134352",
    "itemDescription": "Dal Giardino Risotto Rice with Musrooms 411 gr",
    "https://gs1.org/voc/hasRetailers": [
      {
        "href": "https://dalgiardino.com/where-to-buy/",
        "title": "Where to buy",
        "hreflang": ["en"]
      },
      {
        "href": "https://dalgiardino.com/where-to-buy/index.html.es",
        "title": "Dónde comprar Dal Giardino",
        "hreflang": ["es"]
      }
    ],
    "https://gs1.org/voc/pip": [
      {
        "href": "https://dalgiardino.com/risotto-rice-with-mushrooms/",
        "title": "Product information",
        "hreflang": ["en"]
      },
      {
        "href": "https://dalgiardino.com/risotto-rice-with-
mushrooms/index.html.es"
```

```
"linkset": [  
  {  
    "anchor": "https://id.gs1.org/01/09506000134352",  
    "itemDescription": "Dal Giardino Risotto Rice with Musrooms 411 gr",  
    "https://gs1.org/voc/hasRetailers": [  
      {  
        "href": "https://dalgiardino.com/where-to-buy/",  
        "title": "Where to buy",  
        "hreflang": ["en"]  
      },  
      {  
        "href": "https://dalgiardino.com/where-to-buy/index.html.es",  
        "title": "Dónde comprar Dal Giardino",  
        "hreflang": ["es"]  
      }  
    ],  
    "https://gs1.org/voc/pip": [  
      {  
        "href": "https://dalgiardino.com/risotto-rice-with-mushrooms/",  
        "title": "Product information",  
        "hreflang": ["en"]  
      },  
      {  
        "href": "https://dalgiardino.com/risotto-rice-with-  
mushrooms/index.html.es"
```



# Linkset: Media Types and a Link Relation Type for Link Sets

## draft-ietf-httpapi-linkset-10

Status

[IESG evaluation record](#)

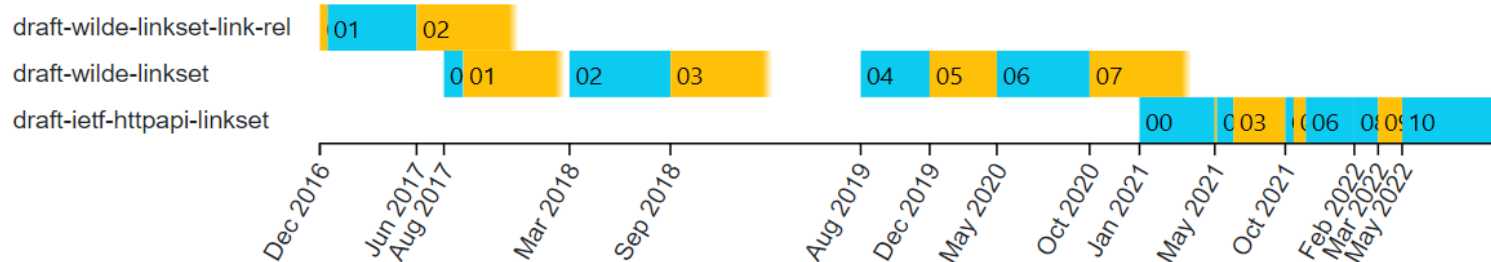
[IESG writeups](#)

[Email expansions](#)

[History](#)

### Versions:

00 01 02 03 04 05 06 07 08 09 **10**



# Item identifier URI

---

Class

Instance

<https://example.com/01/9506000134352/21/211234?linkType=gs1:pip>

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# Summary

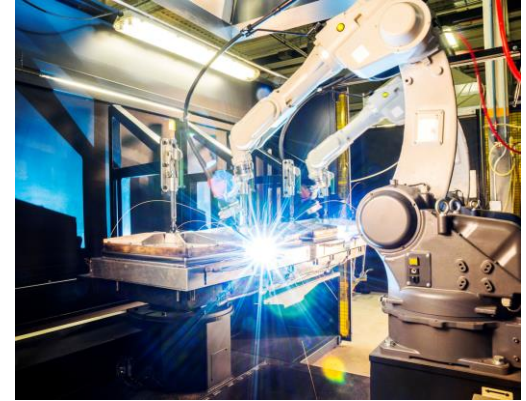
---

- GS1 Digital Link encodes *existing* identifiers in a URI
- Identifiers are *independent* of the resolver service
- Resolver associates URI with one or more typed links (similar to HATEOAS)
- Identifiers are ordered in the path, attributes unordered in the query string
- Therefore, links can be inherited from higher up (Linked Data style)
- Resolver can
  - redirect to a specific type of link if asked
  - return the full linkset if asked
  - just redirect to a default (no app required)
- Aiming for ISO standard (SC31/WG2)

# Start with an identifier

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*Get a common basic API for every thing*



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