SIS (un-)masking

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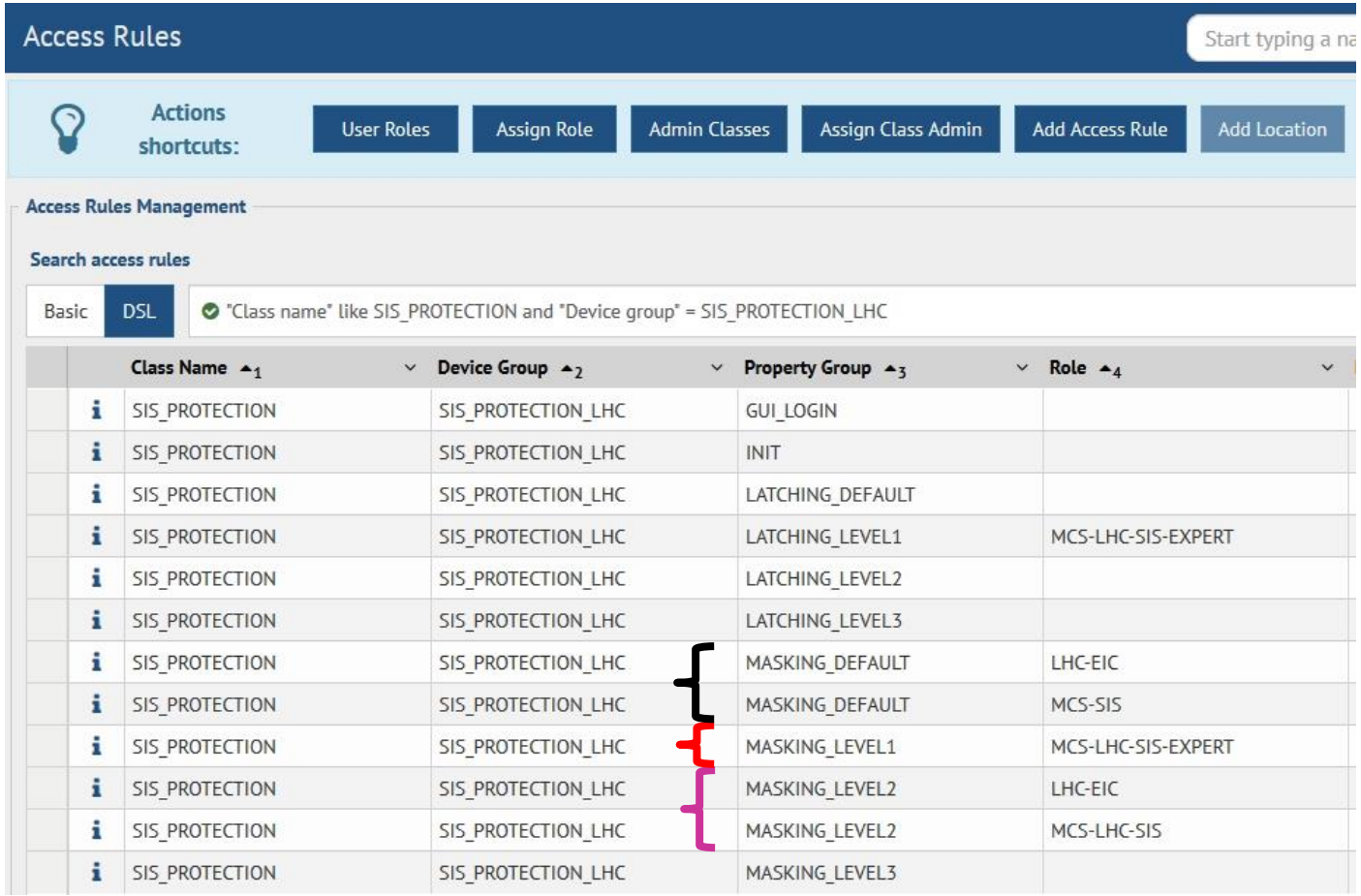
Masks in SIS

- SIS tests may be configured to be **maskable** or **un-maskable**.
  - Un-maskable is no longer used for individual tests, it is limited interlock tree nodes. The reason is flexibility for commissioning, MD etc.
  - Un-maskable tests have been replaced by a mask category (next slide) with special SIS RBAC role.

Mask categories

- One attribute of a SIS maskable test is the **mask category** – **4 categories** in total.
- So far 2 of the categories have been used:
  - **Default** and **LEVEL1** (restricted to experts).
- For Run 3 **LEVEL2** will be used for **MD specific SIS interlocks** (BBLR, crystals).
- The LHC sequencer has RBAC role 'LHC-EIC'.



SIS test TAGs

- Each SIS test can be associated to a number of **pre-defined TAGs**.
  - Current tags are : ‘ORBIT’, ‘INJ1’, ‘INJ2’, ‘POWERING’ etc
- A SIS test may be associated to more than one tag, for example ‘ORBIT’ and ‘INJ1’.
- The interest of TAGs is that the **standard operations** (MASK, UNMASK, UNLATCH) may **be applied to a TAG**, i.e. to all tests associated to the TAG.
  - Eg mask all ‘INJ1’ tests for commissioning of injection beam1 etc.

MD (un-)masking

- By combining a mask category for MD specific tests (BBLR, crystals …) and a ‘MD’ TAG for tests that are frequently masked in MD (for example related to ORBIT) one can setup a sequencer task that will automatically un-mask all those tests (category MD and TAG ‘MD’).