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Abstract: The Selmer group of an elliptic curve over a number field encodes several arithmetic data of the curve providing a p -adic approach to the Birch and Swinnerton-Dyer, connecting it with the p -adic L -function via the Iwasawa main conjecture. Under suitable extensions of the number field, the dual Selmer becomes a module over the Iwasawa algebra of a certain compact p -adic Lie group over \mathbb{Z}_p (the ring of p -adic integers), which is nothing but a completed group algebra. The structure theorem of $GL(2)$ Iwasawa theory by Coates, Schneider and Sujatha (C-S-S) then connects the dual Selmer with the “reflexive ideals” in the Iwasawa algebra. We will give an explicit ring-theoretic presentation, by generators and relations, of such Iwasawa algebras and sketch its implications to the structure theorem of C-S-S. Furthermore, such an explicit presentation of Iwasawa algebras can be obtained for a much wider class of p -adic Lie groups viz. pro- p uniform groups and the pro- p Iwahori of $GL(n, \mathbb{Z}_p)$. Alongside Iwasawa theoretic results, we will state results counting the dimension of first cohomology group of the pro- p Iwahori subgroup of any reductive group over \mathbb{Z}_p and thus prove the Inverse Galois problem for p -adic Lie extensions. We finally conclude by connecting $GL(2)$ Iwasawa theory of (C-S-S) with $PGL(2)$ Iwasawa theory, thus moving down the Iwasawa theoretic tower, unlike (C-S-S) where their arguments circles on moving up the Iwasawa theoretic tower.